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Scott's Seeds

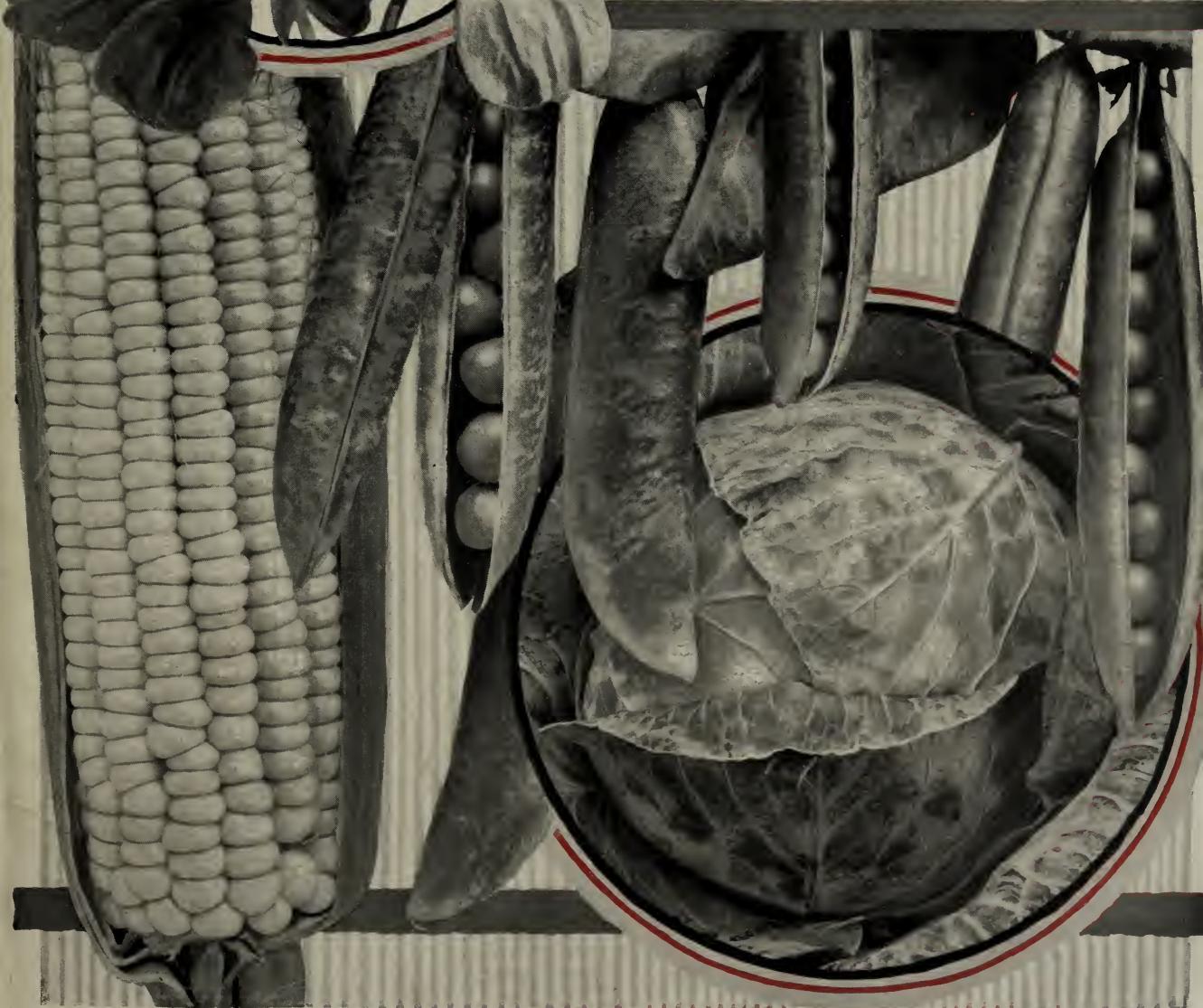
for Market Gardeners

THE I.W. SCOTT CO.

500 LIBERTY AVE.
OPPOSITE THE EMPIRE BUILDING

113 DIAMOND ST.
BELOW PITTSBURGH MARKET

PITTSBURGH, PA.



General Information and Suggestions

FREE DELIVERY OF SEEDS

By Parcel Post. We will deliver free, by parcel post, all Vegetable and Flower Seeds in packets, ounces, quarter-pounds and pounds. On Peas, Beans, Corn, Onion Sets, etc., in pints or quarts, the amount to be added for postage is given in connection with the prices. On half-pecks and pecks, postage must be added at the regular zone rates given in the parcel-post table on this page. This also applies to all other articles of merchandise listed in the catalogue, except where otherwise noted.

By Freight or Express. We will deliver free by freight or express (at our discretion) all orders for Vegetable and Flower Seeds aggregating \$10 or over, to any point in Pennsylvania, Ohio, West Virginia, or Maryland.

How to Order

Write your Name, Post Office, State and Shipping Station plainly on every order. Tell us whether you want the goods to be forwarded by parcel post, by express, or by freight. In the absence of explicit instructions, we use our judgment in shipping.

Remittances

Money should be sent by Post-Office Money Order, Express Company Money Order, Registered Letter or Bank Draft. Amounts less than One Dollar may be sent in postage stamps.

Terms

Our terms are strictly cash with order, except to customers who have previously arranged for a "Charge Account." Upon application, a reasonable credit will be allowed realty owners and other responsible purchasers. On orders for Vegetable and Flower Seeds amounting to \$5 and upward, a discount of 5 per cent will be allowed when cash is sent with the order.

Order Early and Avoid the Rush

During the months of March and April our Seed Department is simply swamped with orders, and even by working nights we are often unable to fill them as promptly as we would like. Our customers can help us very much if they will send us their orders in January and February, so that the seeds may be packed and shipped before the rush season strikes us. Not only will this be a convenience and a help to us, but it will be an advantage to you because you will have the seeds ready when planting time comes. Again, on account of a short crop, or an unusual demand for certain varieties, seedsmen frequently run short and are unable to fill orders complete. While we will endeavor to maintain the prices named in this catalogue throughout the season, conditions of supply are such that we cannot guarantee them any length of time.

PARCEL-POST RATES

Seeds, plants, bulbs and similar articles, also books, weighing eight ounces or less, are subject to postage at the rate of one cent for each two ounces or fraction thereof, regardless of distance. Over eight ounces, pound and zone rates will apply.

All general merchandise weighing four ounces or less is subject to postage at the rate of one cent for each ounce or fraction thereof, regardless of distance. Over four ounces, pound and zone rates will apply.

WEIGHT	1st Zone		(150 miles) 2d Zone Rate	(300 miles) 3d Zone Rate	(600 miles) 4th Zone Rate	(1,000 miles) 5th Zone Rate
	Local Rate	(50 miles) Zone Rate				
1 lb.....	\$0.05	\$0.05	\$0.05	\$0.06	\$0.07	\$0.08
2 lbs.....	.06	.06	.06	.08	.11	.14
3 lbs.....	.06	.07	.07	.10	.15	.20
4 lbs.....	.07	.08	.08	.12	.19	.26
5 lbs.....	.07	.09	.09	.14	.23	.32
6 lbs.....	.08	.10	.10	.16	.27	.38
7 lbs.....	.08	.11	.11	.18	.31	.44
8 lbs.....	.09	.12	.12	.20	.35	.50
9 lbs.....	.09	.13	.13	.22	.39	.56
10 lbs.....	.10	.14	.14	.24	.43	.62
11 lbs.....	.10	.15	.15	.26	.47	.68
12 lbs.....	.11	.16	.16	.28	.51	.74
13 lbs.....	.11	.17	.17	.30	.55	.80
14 lbs.....	.12	.18	.18	.32	.59	.86
15 lbs.....	.12	.19	.19	.34	.63	.92
16 lbs.....	.13	.20	.20	.36	.67	.98
17 lbs.....	.13	.21	.21	.38	.71	1.04
18 lbs.....	.14	.22	.22	.40	.75	1.10
19 lbs.....	.14	.23	.23	.42	.79	1.16
20 lbs.....	.15	.24	.24	.44	.83	1.22
21 lbs.....	.15	.25	.25			
22 lbs.....	.16	.26	.26			
23 lbs.....	.16	.27	.27			
24 lbs.....	.17	.28	.28			
25 lbs.....	.17	.29	.29			
26 lbs.....	.18	.30	.30			
27 lbs.....	.18	.31	.31			
28 lbs.....	.19	.32	.32			
29 lbs.....	.19	.33	.33			
30 lbs.....	.20	.34	.34			
31 lbs.....	.20	.35	.35			
32 lbs.....	.21	.36	.36			
33 lbs.....	.21	.37	.37			
34 lbs.....	.22	.38	.38			
35 lbs.....	.22	.39	.39			
36 lbs.....	.23	.40	.40			
37 lbs.....	.23	.41	.41			
38 lbs.....	.24	.42	.42			
39 lbs.....	.24	.43	.43			
40 lbs.....	.25	.44	.44			
41 lbs.....	.25	.45	.45			
42 lbs.....	.26	.46	.46			
43 lbs.....	.26	.47	.47			
44 lbs.....	.27	.48	.48			
45 lbs.....	.27	.49	.49			
46 lbs....	.28	.50	.50			
47 lbs....	.28	.51	.51			
48 lbs....	.29	.52	.52			
49 lbs....	.29	.53	.53			
50 lbs....	.30	.54	.54			

The maximum weight of parcels addressed for delivery in the First and Second Zones is 50 pounds; beyond the Second Zone, 20 pounds.

Parcels can be insured as follows: Up to \$5, 3 cents; \$5 to \$25, 5 cents; \$25 to \$50, 10 cents; \$50 to \$100, 25 cents, which insures against loss or damage.

All goods shipped by Parcel Post are at owner's risk.

THE I. W. SCOTT COMPANY

Established 1876 : Incorporated 1909



TO OUR FRIENDS AND CUSTOMERS

In presenting our 1920 Seed Catalogue, we wish to call your attention to our new location:

**500 Liberty Ave., opposite the Empire Building
113 Diamond St., below the Pittsburgh Market**

This is our second move in our 44 years in the seed business. Starting in 1876, we were at the old stand across Liberty Avenue until the big fire in 1897, when we removed to the Graeme Street building where we have been for 23 years. Our customers will find our new store centrally located, in the downtown business section, a few doors below the market, and equipped throughout with modern fixtures and conveniences. We are prepared to give our customers more prompt and more efficient service than ever before.

As heretofore, our "latchstring" is always out, and we invite you to make our store your headquarters when in the city.

Our seeds for the 1920 planting season are fully up to the standard of former years, and, with the exception of some varieties of peas, we have an abundant supply to take care of the wants of our customers, new and old.

We wish to express to you our appreciation of the generous patronage of the past year, and, assuring you of our earnest desire to serve you, we are,

Very respectfully yours,

Pittsburgh, Pennsylvania
January, 1920

THE I. W. SCOTT COMPANY

CATALOGUES. We have included in this catalogue, along with the Vegetable and Flower Seeds, a few pages describing various implements and other supplies generally used by market-gardeners and the private gardener. In addition to this special Vegetable and Flower Seed Catalogue we issue two others, as follows:

Our General Catalogue of Agricultural Implements, Farm and Garden Supplies. Starting with Plows, Hawsers, Cultivators, etc., this catalogue lists everything used on an up-to-date farm or market-garden. Our Implements are all standard makes, tried and tested for the purposes intended before being placed on the market.

Our Poultry Supply Catalogue. This catalogue covers a full line of the latest improved requisites for Poultry-raising and Egg-production, including an unsurpassed line of Poultry-feeds.

Either of these catalogues will be mailed free on request. Regardless of what you may want for the farm, garden or poultry-yard, write us about it, and we will give you all the information possible.

VEGETABLE SEEDS

Seeds in Packets.

All of our packet seeds, both vegetable and flower, are put up from exactly the same stock that we use for larger quantities. This gives the small gardener the same quality of fresh seeds as the man who buys by the pound, the peck or the bushel obtains. You need have no fear about buying packet seed from us.

Quantity Rates.

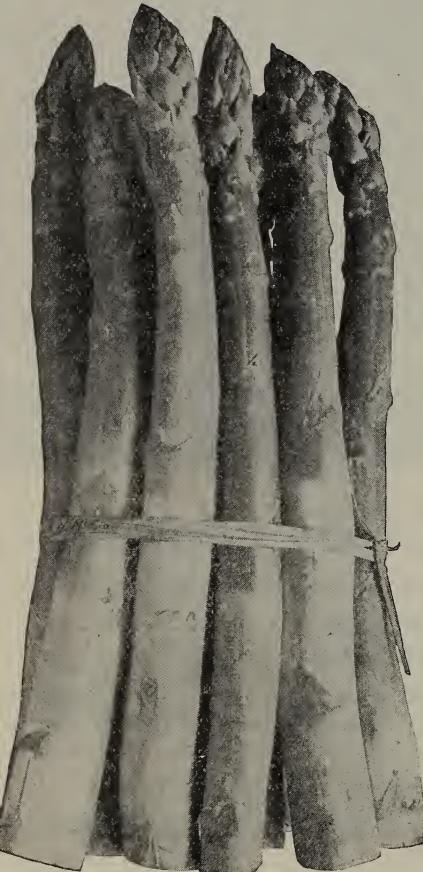
Half-bushels will be charged at bushel-rates. Half-pecks will be charged at the peck-rates. Half-pounds will be charged at the pound-rates. Less than half-pecks will be sold at the quart price. Less than quarter-pounds will be sold at the ounce-rate.

Guarantee.

So many things may arise to prevent the best seeds from giving satisfactory results that it is impossible for us to guarantee seeds. While we exercise the greatest care to have all seeds pure and reliable, we give no guarantee, expressed or implied, and will not be in any way responsible for the crop. If the purchaser does not accept the seeds on these terms they are at once to be returned.

Postage.

On all seeds by the packet, ounce, pound or fraction thereof, we pay postage, unless otherwise stated. We do not pay postage on Beans, Corn or Peas; see rates on bottom of these pages.



PALMETTO ASPARAGUS

BRUSSELS SPROUTS

This peculiar vegetable looks like a lot of little cabbages growing along a stem that is from 12 to 15 inches high. Seed may be sown in April or May, either in a coldframe or in the open ground. When the plants get about the size of a cabbage plant, they should be set in the garden, about 2 feet apart, and cultivated like cabbage. An ounce of seed will produce about 2,000 plants.

HALF-DWARF IMPROVED. Pkt. 10 cts., oz. 40 cts., 1/4lb. \$1.25, lb. \$4.

BROCCOLI

Seed should be sown in May and transplanted in June or early in July. Thrives best in moist fall weather. An ounce of seed will produce about 2,000 plants.

WHITE CAPE. The heads are of medium to large size, creamy white in color and of a delicate flavor. Pkt. 10 cts., oz. 50 cts., 1/4lb. \$1.75, lb. \$6.

PURPLE CAPE. Slightly tinged with purple. Some gardeners consider that it is a little harder than other varieties. Pkt. 10 cts., oz. 50 cts., 1/4lb. \$1.75, lb. \$6.



BRUSSELS SPROUTS

AT PRICES QUOTED ON THIS PAGE WE PREPAY POSTAGE UNLESS OTHERWISE STATED

BEANS

It seems almost useless to give the average gardener any instructions about growing Beans. There are some things, however, that will be helpful and interesting, even to the experienced gardener. The Bush Beans are generally divided into three classes—the Green-podded Beans, the Wax Bush Beans and the Dwarf Limas. In the average catalogue you will find more varieties under the head of Green-podded Beans than in either of the other classes. Ease of culture and propagation may have something to do with this; but the market demand is an important factor, for many buyers consider that the Green-podded Beans are richer in flavor.

Growing Bush or Dwarf Beans in the Garden. About the first of May is the proper time to plant Beans in the garden, for there is very little use in putting the seed in the soil before the ground is reasonably warm. It is customary to make furrows from 18 inches to 2 feet apart, and drop the Beans about 3 inches apart in the furrow. We recommend a depth of $1\frac{1}{2}$ to 2 inches for early spring planting, and $2\frac{1}{2}$ to 3 inches for early or late summer planting.

In the course of a week you may expect to see the plants pushing themselves up to the light. Seed may be planted every two weeks for a succession. The soil should be kept well loosened, but one should avoid working around the plants in the early morning when the foliage is wet with dew; the moisture is quite likely to cause the pods to rust.

Dwarf Green-Podded Bush

Under ordinary conditions one quart of seed is required for 100 feet of furrow. A bushel and a half to two bushels, depending on the variety, will be required for an acre when the seed is drilled in.

BURPEE'S STRINGLESS GREEN-POD. One of the earliest of the green-podded Beans. The plants produce pods very freely, and it is a fine variety to plant for successive crops. The pods are 4 to 6 inches in length, handsome, almost round, thick and meaty; even when full-grown they are entirely stringless. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 50 cts., pk. \$3.50, bus. \$13.

GIANT STRINGLESS GREEN-POD. A splendid sort for second-early crop or planting for succession. The plants are very prolific and pods are considerably longer than the old type of Stringless Green-Pod, ranging from 5 to 7 inches in length; they are absolutely stringless, round, fleshy and filled to the tips with Beans. All things considered it is one of the best varieties for the market-garden or for the home-grower. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 50 cts., pk. \$3.50, bus. \$13.

IMPROVED EXTRA-EARLY RED VALENTINE. This variety is known under two or three names—Hopkins' Valentine, Round Red Valentine, as well as its proper name, Extra-Early Red Valentine. The plants come into bearing about ten days earlier than the old Red Valentine. The fleshy pods are produced in great quantities and are almost stringless even when full-grown; are round and solid. A good sort for market-gardeners. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 50 cts., pk. \$3.50, bus. \$13.

REFUGEE, or 1,000-to-1. This is one of the later-maturing green-podded bush Beans, requiring about two weeks longer than the Red Valentine or Stringless Green-Pod varieties. It is a very heavy yielder and is largely used by canning factories. Probably this variety will produce more Beans to the acre than any other green-podded sort. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 50 cts., pk. \$3.50, bus. \$13.

STRINGLESS GREEN-POD REFUGEE. This is a new variety, but in many respects similar to the old 1,000-to-1, except that it is absolutely stringless. Even when the pods have reached full size and are old enough to shell the Beans, the string feature is entirely absent. The plants are upright growers either in the garden or in the field, and probably will produce more pods than the older variety. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 50 cts., pk. \$3.50, bus. \$13.

LONGFELLOW. An early sort, with round, solid pods. Very prolific; matures its crop very regularly and withstands adverse conditions. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.



GIANT STRINGLESS GREEN-POD BEANS



BOUNTIFUL BEANS



IMPROVED GOLDEN WAX BEANS

mildew than the green-podded sorts. One quart of seed will be required for 100 feet of furrow, and a bushel and a half to two bushels to the acre, when drilled in, depending on the variety.

IMPROVED GOLDEN WAX. The pods of this variety are a little longer and thicker than those of the original Golden Wax, running from 4 to 5 inches in length; the plant is an erect grower, hardy, and bears large quantities of good-quality Beans. A profitable Bean for the market-gardener, and for the home-gardener as well. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

GOLDEN-EYE WAX. A variety that for many years has been popular with market-growers. The plants come into bearing early in the season and produce a goodly quantity of semi-round, yellowish white pods. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

KEENEY'S RUSTLESS GOLDEN WAX. This sort is less liable to rust than any other variety of wax-podded Bean. The plants are remarkably vigorous and extremely productive. The pods are considered a great improvement over Golden Wax, and are meaty, well filled and stringless from the very first of the season to the last of the crop in the fall. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

PENCIL-POD BLACK WAX. One of the later sorts and is valuable for midseason use. Not generally considered a prolific variety, but with reasonable care will give bountiful crops. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

FLAGEOLET SCARLET. Seed large, purplish red; excellent as a snap Bean and also in great favor as a dry shell Bean; pods are deep yellow, flat in shape, growing from 5 to 7 inches long and very tender. $\frac{1}{2}$ pt. 20c., pt. 30c., qt. 60c., pk. \$4, bus. \$15.

DWARF GREEN-PODDED BUSH BEANS, continued

BOUNTIFUL. This variety is well named, both on account of its extreme productiveness and its earliness. One important feature is that while it comes into bearing early in the season the pods will remain in an edible condition for a long time. The pods are flat, absolutely stringless, tender and of excellent flavor. In a good many gardens it is the first Bean to come into bearing and if planted in succession will continue to bear until late in the fall. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 50 cts., pk. \$3.25, bus. \$12.

BLACK VALENTINE. This is an exceedingly early sort, and very similar to the Red-seeded Valentine, except that the pod is straighter and the Beans are black. Some growers do not consider it quite so good in quality as the Red Valentine, but in a market where there is a demand for the black-seeded Beans it will prove to be popular. It is a strong, vigorous grower, enormously productive, an excellent shipper and of very handsome appearance. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 50 cts., pk. \$3.25, bus. \$12.

FULL MEASURE. A desirable round-podded variety with pods 6 to 7 inches long, which are solid, meaty, brittle, and stringless. It is a little later than Stringless Green-Pod and is a splendid Bean for home or market use. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

WHITE KIDNEY. Largely grown for shell Beans. The pods are showy and of good size, but are inclined to get tough unless picked when young. It has an advantage over some other sorts in that the Beans are white and do not discolor when cooked. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

RED KIDNEY. Mostly grown for shell Beans. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

WHITE MARROWFAT. Good for cooking or baking; also an excellent shell Bean. Pod medium broad, green. $\frac{1}{2}$ pt. 20c., pt. 30c., qt. 60c., pk. \$4, bus. \$14.

DWARF HORTICULTURAL. A good sort for a green shell Bean. Pods are almost round, of medium length and slightly curved like some of the wax varieties. The Beans are round and speckled with red or purplish red. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

WHITE NAVY or PEA BEAN. This Bean is used mostly for field planting and is probably one of the best sorts for this purpose. The variety is considered to be a sure cropper and extremely prolific. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 50 cts., pk. \$3.25, bus. \$12.

DWARF WAX-PODDED BEANS

The Yellow-podded Wax Beans are handsomer in appearance than the green sorts, and on this account bring a higher price in a good many markets. The plants are good yielders, but they seem to be more subject to rust or

to gardeners all over the country, and is one of the hardest sorts.

The plants are rapid growers, coming into full size in a very short time; pods broad, waxy yellow, brittle and of fine flavor; seeds white with slight purple tinge. Most desirable in every way. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

WARDWELL'S KIDNEY WAX. Probably this variety is known to gardeners all over the country, and is one of the hardest sorts. The plants are rapid growers, coming into full size in a very short time; pods broad, waxy yellow, brittle and of fine flavor; seeds white with slight purple tinge. Most desirable in every way. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

DAVIS WHITE WAX. Compact in growth and very productive; the pods are clear waxy white, long and handsome. The dry Beans are clear white, tender, of fine flavor and are especially good for baking. $\frac{1}{2}$ pt. 20c., pt. 30c., qt. 60c., pk. \$4, bus. \$14.

IMPROVED PROLIFIC BLACK WAX. A good variety which should be planted in every garden. Pods are quite long, nearly round and well filled with small black seeds. Very tender and of excellent flavor. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

HODSON WAX. One of the handsomest Wax Beans, and a splendid sort for market, as it sells readily. The plants produce good crops and the variety is splendid for second-early or for main crop. The pods are long, very tender and of fine flavor. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

DWARF WAX-PODDED BUSH BEANS, continued

SURE-CROP STRINGLESS WAX. One of the best new extra-early varieties. Plants are strong growers and begin to produce pods when quite small. The pods are of extra-fine quality, semi-round and of a beautiful appearance. As its name implies, it is absolutely stringless. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

HARDY WAX. A very desirable medium-early variety. Rich yellow pods of medium length, round, entirely stringless, and of excellent quality. Produces a vigorous bush and seems to withstand adverse weather conditions better than any of the other wax-podded sorts. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$14.

BUSH LIMA BEANS

Growing Bush Lima Beans in the Garden. The Limas are very tender and are susceptible to cold, wet ground and unpleasant weather. If Bush Lima Beans are planted in hills, the hills, should be 2 to 3 feet apart each way, with four to six Beans in a hill. If planted in drills, the rows should be 2 to 3 feet apart, and the Beans planted 3 to 4 inches apart and about 2 inches deep. Planting in hills on the above basis requires about twenty quarts of seed to the acre, and in drills thirty quarts to the acre.

BURPEE'S IMPROVED. The pods are large, well filled with Beans that come into marketing condition early in the season and remain green for a long time. The plant is an upright, compact grower, with very heavy foliage. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$4.75, bus. \$18.

FORDHOOK. Bears bigger crops than any other Lima, and are unusually early; in some cases they are ready for use three weeks earlier than the pole varieties. The pods are extra large and are well filled, containing three to five very large Beans. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$4.75, bus. \$18.

BURPEE'S. This Bean is of first quality and is among the best sorts for the average home-garden. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.

WOOD'S PROLIFIC. An improved strain of the old Dwarf Sieva Bean. It is hardier than the true Limas, and is valuable for planting where true Limas do not succeed well. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.

POLE LIMA BEANS

The culture for Pole Lima Beans is practically the same as for the Bush Limas, excepting that poles 8 to 10 feet long must be used for the vines to climb.

EXTRA-EARLY JERSEY. Comes into marketable size ten days to two weeks earlier than the old Large White Lima. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$3.75, bus. \$14.

DETROIT MAMMOTH. A new variety introduced a few years ago. The mammoth pods are 9 to 11 inches long, medium green in color, and contain from five to seven Beans; excellent quality. Medium early, strong-growing vines and very productive. $\frac{1}{2}$ pt. 25 cts., pt. 40 cts., qt. 75 cts., pk. \$5, bus. \$18.

SEIBERT'S EARLY. Extra early. One of the most productive, and when freshly shelled the Beans are extra large, but shrink in drying to about the size of the ordinary White Lima. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$3.75, bus. \$14.

KING OF THE GARDEN. The largest of the Lima Beans and is extra fine in every way. The pods often measure from 5 to 6 inches in length and contain five or six perfectly formed Beans. It is never safe to allow more than two vines to each pole. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$3.75, bus. \$14.

LEVIATHAN. Early; the vines are extra-strong growers and bear great quantities of large pods that are filled with good-sized, tender Beans. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$3.75, bus. \$14.

CARPINTERIA. This large, green-seeded variety produces extra-fine Beans which are of good size and much thicker than the ordinary Lima, with three to five Beans in the pod. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$3.75, bus. \$14.

LARGE WHITE. This old sort is the standard by which all varieties of Lima Beans are measured. It has been grown in family gardens and by market-gardeners for many years. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$3.75, bus. \$14.



POLE LIMA BEAN

WAX- AND GREEN-PODDED POLE or RUNNING BEANS

The Pole or Running Beans are tender and should be planted about two weeks later than Bush Beans. They succeed best in sandy loam which should be liberally enriched with manure. They are usually planted in hills 3 to 4 feet apart, with six to ten Beans in a hill and about 2 inches deep. However, when they are well started, they should be thinned to from four to six plants in a hill. They are sometimes planted with corn, using the stalks for a support. One quart of seed will plant from 100 to 200 hills and from eight to ten quarts will plant an acre, according to the size of the Bean.

KENTUCKY WONDER. It is about ten days earlier than most of the green sorts, being ready for use the first of August. Pods are entirely stringless, of good size, tender and excellent. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 50 cts., pk. \$3.50, bus. \$13.

KENTUCKY WONDER WAX. Practically identical with the Kentucky Wonder except that the pod is waxy yellow and flat. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4.25, bus. \$16.

LAZY WIFE. Pods are of good size, entirely stringless, fleshy, of pleasing flavor. Equally good as a snap Bean or a winter shell Bean. $\frac{1}{2}$ pt. 20c., pt. 30c., qt. 60 cts., pk. \$4.25, bus. \$16.

KING HORTICULTURAL. Similar to the old London Horticultural or Speckled Cranberry. Pods are short, broad, pale green, streaked with bright red. The Beans are extra good, either green or dry. $\frac{1}{2}$ pt. 15c., pt. 25c., qt. 50c., pk. \$3.50, bus. \$13.

BURGER'S GREEN-POD STRINGLESS. Also known as the White-seeded Kentucky Wonder. Bears long, brittle pods of fine flavor. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 50 cts., pk. \$3.50, bus. \$13.

SCARLET RUNNER. This variety is often used as an ornamental climber. It is a rapid grower, thickly covering a porch or trellis, and makes elegant shade in summer. The flowers are borne in good clusters, are brilliant scarlet and are followed by green pods that are sweet and tender. The dry Beans can be used in the same way as the Lima Beans. $\frac{1}{2}$ pt. 20 cts., qt. 30 cts., qt. 60 cts., pk. \$4.25, bus. \$16.

GOLDEN CLUSTER WAX. Long yellow pods, from three to six Beans in a pod, bearing from the middle of July until frost. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$4.75, bus. \$18.

BEETS

If the gardener wants Beets for early use, the seed should be sown just as early in the spring as it is possible to work the soil. If still earlier crops are desired, the seed may be sown in coldframe in February or March, and the little plants reset in the open ground in the early spring, this method often saving two or three weeks' time. The round or turnip-shaped Beets are considered best for general table use.

Growing Beets in the Garden. If the crop is desired for table use only, the seed may be sown in drills about 14 inches apart; after the plants are up they should be thinned so that they will stand 4 to 5 inches apart in the row. This will give ample space for the earlier Beets to develop, and when harvesting the crops, from time to time pull out alternate plants; thus the remaining plants will have more room to spread and become larger for winter use. Ordinary garden soil is entirely suitable for growing Beets, provided it is spaded and plowed quite deeply and the surface made mellow. The roots can be stored in a dry cellar, covered with sand to prevent shriveling or drying out, or they may be kept in pits out-of-doors.

EARLY MODEL. A very early blood-red sort; medium size, almost round, extremely sweet and tender. Pkt. 5 cts., oz. 15 cts., 1/4lb. 50 cts., lb. \$1.50.

CROSBY'S EXTRA-EARLY. A very superior variety. More globe-shaped than the old flat Egyptian. Nearly as early and of better quality. Good for either early or late planting. Pkt. 5 cts., oz. 15 cts., 1/4lb. 50 cts., lb. \$1.50.

EXTRA-EARLY EGYPTIAN. Very similar to Crosby's Extra-Early, but is a week or ten days earlier. The flesh is dark red, crisp and sweet. It is especially good for market-gardeners, and likewise for early use in the home-garden. Pkt. 5 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.25.

EXTRA-EARLY ECLIPSE. This is one of the most popular table Beets. The root is round, slightly pointed; flesh is bright red but not quite so dark as the Egyptian. If planted in June or July it makes a good sort for winter use. Pkt. 5 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.25.

DEWING EARLY BLOOD TURNIP. This is a medium-early sort, with a smooth turnip-shaped root. It is especially good for storing for winter use, if the seed is sown the latter part of June or first of July. Pkt. 5 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.25.

EARLY BLOOD TURNIP. Round, with very small tap-root and grows to a good size in comparatively short time. The flesh is deep blood-red. Pkt. 5 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.25.

DETROIT DARK RED. This variety is an improved strain of the old Blood Turnip. The flesh is dark red, somewhat like the Egyptian, but the root is almost a perfect globe shape. The outer skin is very smooth; the tops are of medium size. Market-gardeners consider it a valuable sort, but it is equally suitable for the home-garden. Pkt. 5 cts., oz. 15 cts., 1/4lb. 50 cts., lb. \$1.50.

CRIMSON GLOBE. A good-sized Beet that is popular for market use; matures early; is a good keeper, and has an excellent appearance. Pkt. 5 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.25.

SWISS CHARD. This plant belongs to the Beet family, but the leaves only are used, prepared like spinach. The stems can be used in the same way as asparagus. The leaves grow to a very large size, often 20 to 24 inches in length.

WHITE or SILVER SWISS CHARD. Pkt. 5 cts., oz. 15 cts., 1/4lb. 50 cts., lb. \$1.50.

MANGEL-WURZEL

The Mangels are particularly valuable for the stockman and poultryman; the roots are juicy and sweet and are considered good for milch cows. Twenty-five to thirty tons of roots can be grown on an acre, which requires from five to six pounds of seed. The seed should be sown in April or May, and when the plants are 2 or 3 inches high, thin them out so that they will stand 5 to 6 inches apart. Should be harvested before frost and stored in pits out-of-doors, or in a dry, frost-proof cellar.

NORBITON GIANT, LONG RED. Very large; excellent variety for feeding stock. Oz. 10 cts., 1/4lb. 25 cts., lb. 75 cts.

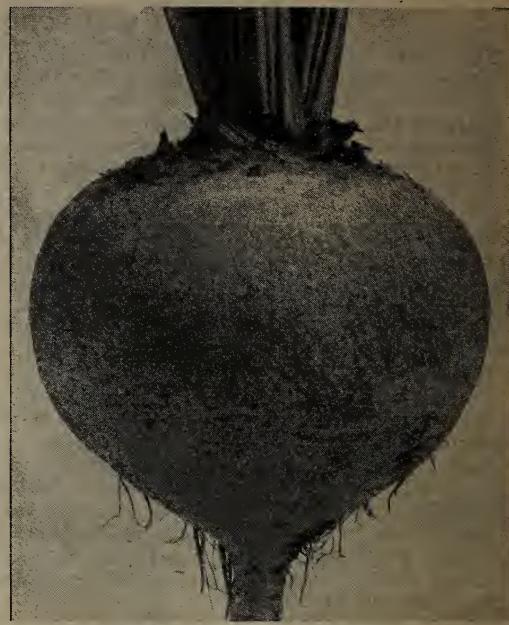
GOLDEN TANKARD. Particularly valuable on account of the sugar. The flesh and skin are deep yellow and the roots grow to an extremely large size. Oz. 10 cts., 1/4lb. 25 cts., lb. 75 cts.

LONG RED MAMMOTH. A good many stockmen consider this variety to be best of the Mangels. The roots grow to an enormous size and furnish a splendid quality of feed; all stock will eat the roots, but they are especially good for milch cows. Oz. 10 cts., 1/4lb. 25 cts., lb. 75 cts.

WHITE SUGAR. Probably the sweetest and best of all Sugar Beets; very productive and especially good for stock-feeding. Oz. 10 cts., 1/4lb. 25 cts., lb. 75 cts.

KLEIN WANZLEBEN. (Sugar Beet.) The roots are large and easily grown, with medium tops and white flesh. This variety, with careful culture, often yields twelve to sixteen tons per acre. One of the best of the Sugar Beets. Oz. 10 cts., 1/4lb. 25 cts., lb. 75 cts.

RED GLOBE. Flesh is light red or pink; keeps well for winter use and is probably the best Mangel for growing in shallow soils. Oz. 10 cts., 1/4lb. 25 cts., lb. 75 cts.



DETROIT DARK RED BEET



MANGEL-WURZEL

CABBAGE

Growing Cabbage in the Garden. If extra-early Cabbage is desired, it is advisable to sow the seed in a hotbed in January or the first part of February. Plants raised in hotbeds must be hardened off by slightly lifting the sashes to give air on mild days. Plants may be set in the open ground as soon as danger of heavy frost is past—if the plants are properly hardened they will not be injured by slight freezing. Cabbage plants are gross feeders, and the soil should be made as rich as possible and likewise finely pulverized; set the plants about 20 inches apart, and make the rows far enough apart to admit of easy cultivating. Seed may be sown about the middle of April for the second crop, and for later crop sow early in May, transplanting to open ground in July. One ounce of seed will produce from 1,500 to 2,000 plants.

If the plants are infested with Cabbage-worms they may be dusted with Slug Shot, tobacco dust or some similar insecticide.

SELECT EARLY JERSEY WAKEFIELD. For a good many years this has been the leading early Cabbage. As a general thing, market-gardeners consider it the best of the early sorts. The heads are pointed and of fair size. The plants are hardy, standing heavier frost than any other early variety. The leaves are small, therefore permitting of close planting. Select Early Jersey Wakefield is an excellent keeper, solid enough to be shipped long distances, a valuable sort for the home-garden as well as for the market-gardener. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

CHARLESTON LARGE WAKEFIELD. This is simply a selection from the Select Early Jersey Wakefield, but a little later, and grows a much larger head. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

EUREKA. A flat-headed Cabbage which comes into usable size with the Early Jersey Wakefield. The heads are solid, with tender leaves. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

GLORY OF ENKHUIZEN. This variety is a dwarf grower, with small leaves, permitting of close planting. Heads are ball-shaped, tender, fine-grained and of ideal size for marketing. Tested with the Early Jersey Wakefield it has proved to be five to ten days earlier, which is a great advantage to the man who grows for the market. It also has a finer flavor and is a better keeper than the Wakefields. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

COPENHAGEN MARKET. This variety was introduced about ten years ago. The heads are round, and weigh from five to eight pounds each; they are extremely solid, have a very small core, and are of fine quality. It matures with the Wakefields. The plants are hardy, short-stemmed, and produce heads close to the ground. On account of its compact growth it can be planted closer than most other varieties. The finest round-headed early Cabbage on the market. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

HENDERSON'S EARLY SUMMER. An old, well-known second-early Cabbage. The heads are flat, round and solid, and will weigh from seven to ten pounds each; is about ten days later than the Early Jersey Wakefield. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.



DANISH BALLHEAD (SHORT STEM) CABBAGE

BURPEE'S ALLHEAD. This variety was introduced something like twenty years ago. It is claimed to be "the earliest of all large Cabbages." The heads are flat and solid, having comparatively few outer leaves. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

BURPEE'S SUREHEAD. Another old standby. Heads have few loose leaves, are uniform in size, hard, and keep well. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

SUCCESSION. This is a second-early variety, and is highly recommended for garden planting, as it heads well under almost all conditions. About a week later than Early Summer, but nearly double the size. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

ALL SEASONS. An early drumhead Cabbage; very solid, nearly round heads that are slightly flattened. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

HOLLANDER, or DANISH BALLHEAD, SHORT STEM. The true Danish Ballhead Cabbage came from Denmark something like thirty-five years ago, and still holds the popularity that came to it during the first few years of growth for the American market. The heads are solid as a bullet, of medium size, white and tender clear to the center; no other Cabbage is so popular for market use as the Danish Ballhead, and a good price can be obtained for this variety when ordinary Cabbages are not salable at any price. The most popular and profitable late variety for market. A good keeper. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

PREMIUM FLAT DUTCH. There is no better Cabbage for later winter use; it is a splendid keeper and the heads are of good size, solid and handsome. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.



COPENHAGEN MARKET CABBAGE

CABBAGE, continued

MAMMOTH ROCK RED. A good - sized, reliable - heading red Cabbage. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

DANISH ROUND RED. This is a new introduction and probably is the best of the red Cabbages. The deep color extends clear to the center of the heads, which are perfectly round, very solid, and not liable to burst. Pkt. 10c., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

LARGE LATE DRUMHEAD. Extra-good flat Cabbage for all purposes. Heads solid and big, and will keep until late in the spring. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

DRUMHEAD SAVOY. Savoy Cabbages have peculiarly crinkled leaves. This variety is probably the best of the Savoys. Plants are strong growers, with only a few outer leaves. The heads may be blanched without difficulty and are of the finest flavor. Savoy Cabbage is the favorite of many, and this variety is one of the best for the home garden. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

CHINESE or CELERY CABBAGE (Pe-Tsai)

Produces beautiful celery-like heads that bleach easily; also resembles Cos Lettuce. The outer leaves may be used while it is growing; fine to use as a salad or cooked like asparagus. The flavor is delicious. Sow seed about the last of June, plant in rows 24 inches apart, and thin to 20 inches apart in the row. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.

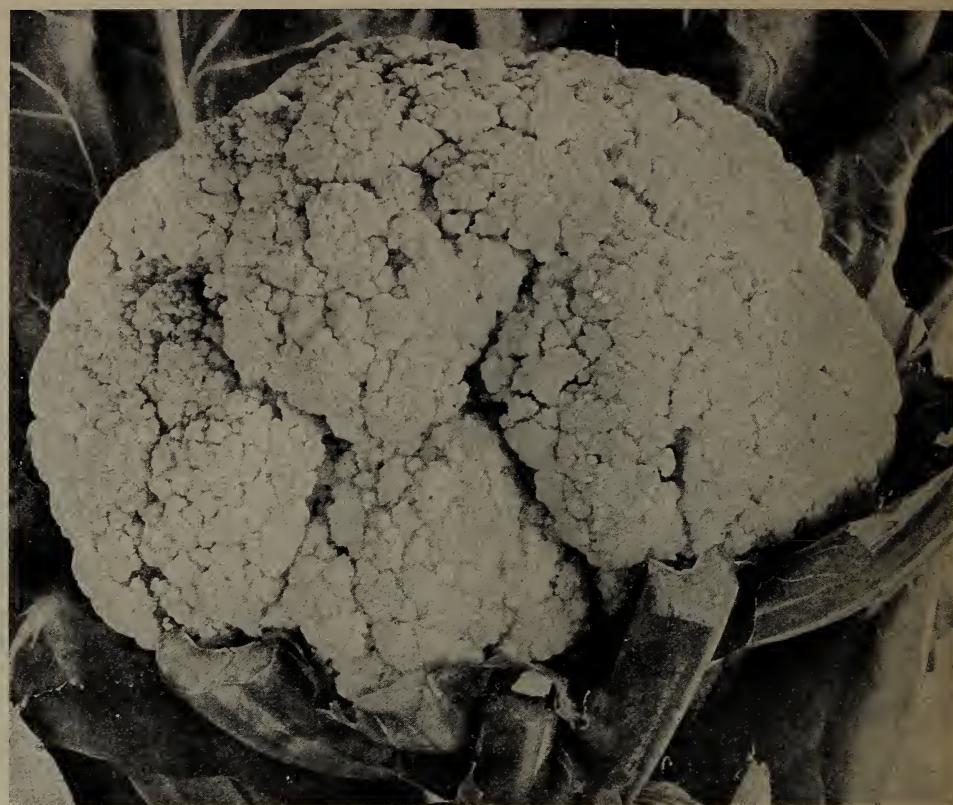
COLLARDS

GEORGIA or SOUTHERN. A popular variety with a long, green stem and large, loose leaves forming an open head. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

CAULIFLOWER

Growing Cauliflower in the Garden. Like most vegetables, Cauliflower thrives best in rich soil, with plenty of moisture. In dry weather it is advisable to water the plants freely, and especially so when the heads begin to form. The seed should be planted about the same time as cabbage seed and under the same general conditions, but it should be borne in mind that Cauliflower will not head in hot weather; therefore seed-sowing should be planned so that the heads will form in the spring and early summer or in the autumn. One ounce of seed will produce about 2,000 plants.

SELECT EARLY SNOWBALL. This is an extra-early variety, which is generally considered to be one of the sure-heading sorts. The habit is dwarf; the outer leaves are small, which permits the plants to be set very close, 18 to 20 inches giving ample space; the head is of medium size, pure snow-white. In addition to its value in the garden it can be grown under glass in the winter. It is a most valuable sort, both for the market-gardener and the home garden. We offer an unsurpassed strain from one of the leading growers in Denmark. Pkt. 40 cts., $\frac{1}{4}$ oz. 90 cts., oz. \$3, $\frac{1}{4}$ lb. \$10.

**SELECT EARLY SNOWBALL CAULIFLOWER****CAULIFLOWER, continued**

DANISH GIANT or DRY WEATHER. This variety is just a few days later than Snowball. The heads are about the same size, pure white, perfect and solid. The great advantage of this sort is that it will grow during dry weather when the other varieties are likely to fail to head during periods of extreme drought. Pkt. 40 cts., $\frac{1}{4}$ oz. 90 cts., oz. \$3, $\frac{1}{4}$ lb. \$10.

CORN SALAD

This is a hardy, quick-growing plant, and is often used as a substitute for lettuce during the winter months; also for cooking like spinach. The seed may be sown in the late fall; if the plants are given a slight protection in winter they will be suitable for use in early spring.

LARGE-SEEDED. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

CRESS

The common name of Cress is "Pepper Grass." The seed may be sown very early in spring in a sheltered spot in the garden, or may be started in the hotbed and the plants set out as early as possible. The plants mature very rapidly and soon produce seed, therefore it is necessary to sow every week or ten days, as the leaves are good only when the plants are small.

FINE-CURLED PEPPER. The foliage can be cut several times before the plants begin to form seeds. It is one of the best sorts of this class. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

WATER CRESS. (True.) Seeds of this variety should be sown in damp places; on the bank of a stream in shallow water is one of the best places for Water Cress. No care is required after sowing the seed. Pkt. 15 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

CARROT

Carrots in the Garden. If an early crop is desired, the seed should be sown in warm, well-fertilized soil, from the first to the middle of April. For a later crop the seed can be sown about the first of June. Make drills about 14 inches apart, scatter the seed evenly in the drill and cover with about half an inch of soil. When the plants come up, pull them out so that they will stand not less than 3 inches apart. Fresh manure should never be used as a fertilizer for Carrots. An ounce of seed will sow about 100 feet of drill, and three to four pounds of seed are required for an acre.

EARLY SCARLET HORN, BLUNT ROOT. Tops are small, roots growing about 3 inches long. The color is reddish orange; flavor excellent; is one of the best summer sorts. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 35c., lb. \$1.

EARLY SCARLET HORN, POINTED ROOT. Like the preceding except that the root is a little longer and tapers down to a point. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

DANVERS HALF-LONG. The roots of this variety taper to a blunt point. Color is dark orange; quality is exceptionally good and the root has but little core. It cooks very tender and is of fine flavor. The tops are of medium size and seem to be more finely cut than the average variety of Carrot. The roots make a good appearance when bunched, and therefore the variety is especially desirable for market. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

IMPROVED LONG ORANGE. A selection from the old Long Orange. The roots are a little larger, deep red in color, thick and fleshy. It is a particularly profitable variety to grow as it is one of the most valuable Carrots for stock-feeding; also a valuable sort for market. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.



DANVERS HALF-LONG CARROTS

CHANTEURAY. This is often called the Stump-rooted Carrot, and is one of the very earliest sorts. The color is orange-red; the top is broad and tapers to a rather blunt point. It is a variety which market-gardeners should plant for general crop. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

ST. VALERY. This is usually planted for the main crop of Carrots, as the roots are symmetrical, tapering regularly from the top to the tip and are free from all side roots. It is a desirable sort for the home-garden as well as for market. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

HALF-LONG LUC. Roots of this variety are from 4 to 5 inches long, inclined to be blunt and with comparatively slight taper. Has the usual orange-red color. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.



GOLDEN SELF-BLANCHING CELERY

CHICORY

The roots of Chicory may be cooked and served in the same manner as turnips. When dried, the roots are often used to adulterate coffee. The leaves are very tender and succulent, and are often used as salad. Seed should be sown in the early spring and the plants thinned to about 6 inches in the rows. One ounce of seed will sow about 100 feet of drill.

LARGE-ROOTED. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

WITLOOF. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

CELERY

Celery in the Garden. If you grow Celery plants from seed you must be patient, for the seed is very slow in germinating. If early plants are wanted for the garden, the seed should be sown in a hotbed not later than the first of March, just barely covering the seed. After the little plants get 2 to 3 inches high they should be transplanted to a coldframe, setting them about an inch and a half apart. Keep the temperature in the coldframe at a moderate degree; when the weather is suitable, which usually is the latter part of May, set the plants in the open ground. For a field crop the seed may be sown in an open seed-bed. In this case the bed should be kept well watered and the top soil firmed by rolling or pressing. When the plants get up to the usual height, thin them out to 2 or 3 inches apart. When they get to be 4 to 5 inches high, it is a good plan to cut off the tops so as to make the plants stocky. The grower should plan to sow the seed and set the plants so that they may mature during the cool days of late May and June, rather than in the hot days of July. Do not hoe around the plants, nor permit any dirt to be thrown against them when they are wet with either dew or rain; it is likely to cause serious injury. One ounce of seed will give from 3,000 to 4,000 plants; one-half pound of seed usually is required for an acre.

GOLDEN SELF-BLANCHING. (French-grown Seed.) Considerable seed of this variety is grown in this country, but it does not produce as satisfactory plants as the French-grown seed; therefore we handle nothing but the imported stock. Golden Self-blanching is one of the very best Celeries for market use. The stalks are thick, crisp and brittle, and the heart is waxy yellow in color. Even the outer stalks are tender and free from stringiness. It blanches without difficulty, and we believe no other sort equals it for home or market. Pkt. 25 cts., oz. \$1.25, $\frac{1}{4}$ lb. \$4, lb. \$15.

GOLDEN SELF-BLANCHING. (American-grown Seed.) Pkt. 5 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.



EASY-BLANCHING CELERY

CELERY, continued

EASY-BLANCHING. The stalks are thick, almost round; foliage light green, blanching to quite a yellow tint. Pkt. 10 cts., oz. 65 cts., $\frac{1}{4}$ lb. \$2.25, lb. \$8.

GIANT PASCAL. A selection from the Golden Self-blanching. The stalks are large and thick, very crisp, and have a fine flavor. A little earthing is required to blanch it for the best appearance; retains its freshness for some time after cutting. A good winter keeper. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

WHITE PLUME. Probably the easiest of the Celeries to grow in the garden. It comes into maturity early in September, and if hurried along can be had from the middle to the latter part of August. Pkt. 5c., oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.

PERFECTION HEARTWELL. This is a variety that has been on the market for a good many years and still holds its favor with gardeners. It is a late Celery of excellent flavor and can be kept well into the winter. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

WINTER QUEEN. Another late sort, with solid, thick stalks; can be kept late in the season. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

GOLDEN DWARF. Similar to the Golden Self-blanching, but the stalks do not grow so tall. The plant is just about as large and the stalks nearly as thick; the heart is solid and of good flavor. Pkt. 5c., oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.

PERFECTION WINTER. Of medium height, with a larger amount of heart than most other varieties; of fine quality and an excellent variety for late winter use. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

GIANT GOLDEN HEART. Rather tall, forming a large bunch and blanching white and crisp. Is hardy and a good shipper. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

CELERIAC, or TURNIP-ROOTED CELERY

The roots—not the top—are the edible portions of this plant. They are used chiefly for flavoring soups in place of celery or celery seed. May also be cooked or used as a salad.

LARGE PRAGUE. A prolific variety for market-gardeners. The roots are large, round, smooth and free from side shoots. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

CUCUMBER

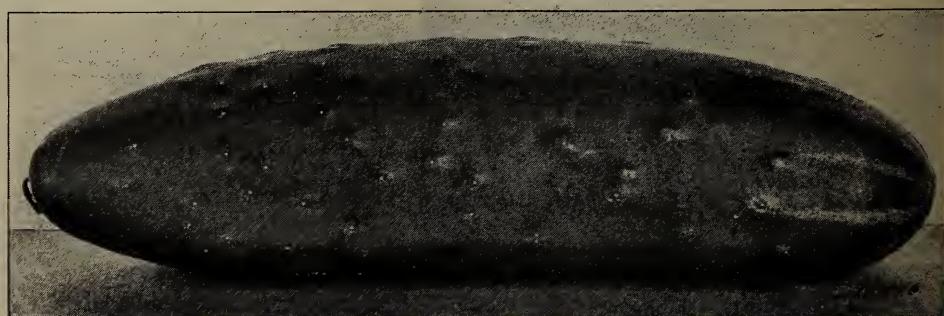
Cucumbers in the Garden. If you want extra-early Cucumbers, cut a few pieces of sod, turn the grass side down in the hotbed, and sow the seeds on top of the sod. If this is done the latter part of March or first of April the plants will be big enough to transplant to the open ground in the first warm days of spring. Paper pots and dirt bands may also be used in the hotbed in the same way as sod. For later use, hills may be made in the garden 4 to 6 feet apart each way, and the seed sown in the hill. When the plants come up, thin them out, leaving no more than four of the best plants in each hill for table use. The planting may be continued until the middle or latter part of July. For pickles, seed should be sown from June to the middle of July. The plants require a warm, rich, loamy soil, with a reasonable degree of moisture. The little fruits should be picked as soon as they are ready for use, otherwise the vines will cease to bear. If the Cucumber- or squash-beetles interfere with the development of the plants, give

them a dose of bordeaux-arsenate of lead. One ounce of seed will plant about fifty hills, and two pounds of seed will be required for an acre.

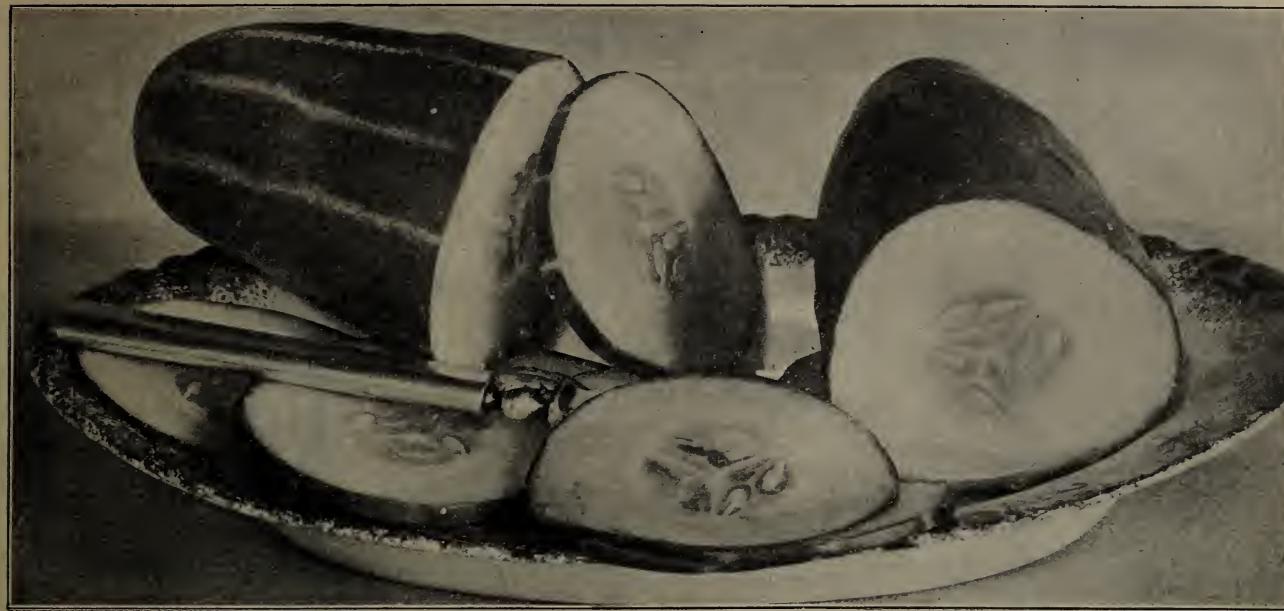
DAVIS PERFECT. Only one or two varieties of Cucumbers compare with Davis Perfect for general market use. This particular variety can be forced under glass for the winter markets, or grown outside during the summer. The fruits are long and slim. The color is rich, dark green, which holds until they are nearly ripe. They are tender and brittle and frequently are taken for "hothouse" Cucumbers. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.50.

EARLY FRAME. "Short-Green" is another name for this variety. Fruits are straight but taper at both ends. Color is bright green. Pkt. 5 cts., oz. 15c., $\frac{1}{4}$ lb. 40c., lb. \$1.25.

LIVINGSTON'S EMERALD. This is an evergreen sort, almost spineless, which retains its color until almost ripe. The vines are vigorous and begin to set fruit when quite small. It makes an excellent small pickle, and when ripe is superior for sweet pickles. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.



DAVIS PERFECT CUCUMBER



IMPROVED EARLY WHITE SPINE CUCUMBER

CUCUMBERS continued

IMPROVED EARLY WHITE SPINE. This variety comes into bearing early and produces straight, light green Cucumbers that are crisp and tender. An exceptionally good sort for the home garden. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

ARLINGTON WHITE SPINE. Is another selection from the old White Spine Cucumber, but larger in size and not quite so early. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

BENNETT'S WHITE SPINE, IMPROVED. The originator spent several seasons in selecting and perfecting this variety. It comes into bearing early and produces fruit that is light green, mottled with pure white, with a few short spines. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

EXTRA-LONG, or EVERGREEN WHITE SPINE. Another selection from the old type of White Spine, but the fruits are considerably longer than the other strains. The fruit is similar in shape, and the variety is used extensively for hothouse planting. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

EARLY CLUSTER. The fruits are produced quite early in the season in clusters or masses. Well adapted for forcing or for open ground. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

GREEN PROLIFIC, or BOSTON PICKLE. Extra good for pickling, in fact, considered one of the best. Color dark green. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

WEST INDIA GHERKIN, or BUR. The Gherkins are used principally for pickles. This variety is rather small and round, and the fruit is produced freely on strong-growing vines. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

LONG GREEN TURKEY. Vines are vigorous and productive; fruit very long, slender, firm and crisp. The small fruits are used principally for pickles. Pkt. 5c., oz. 15c., $\frac{1}{4}$ lb. 40c., lb. \$1.25.

COOL AND CRISP. A fine garden Cucumber, deep green and crisp. Is of the White Spine type, pure white when ripe. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

JAPANESE CLIMBING. It is necessary to grow this variety so that the vines can run over a trellis or be supported in some way. It is particularly valuable in a small garden. The Cucumbers are long, tender, and of fine flavor and borne very freely throughout the whole season. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

CUMBERLAND. This variety is also of the White Spine type. The fruits are thickly set with small spines, which almost cover the entire surface. The fruit is straight and practically the same size from end to end. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

FORDHOOK FAMOUS. The introducer claims this to be one of the largest and handsomest Cucumbers on the market. The vines are exceedingly vigorous and set fruits throughout the whole season. The skin is thin, bright green and does not turn yellow even in the fully matured fruits; flesh is thick, with few seeds, very crisp and fine-flavored. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.50.

EARLY FORTUNE. One of the very early varieties, producing an abundance of fruit of medium size and very high quality. A good variety for early table use. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25

EXTRA-LONG JERSEY PICKLING. A superior strain of the well-known Jersey Pickle. Produces longer fruit of dark green; vines are very vigorous and productive. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

KLONDIKE. A strain of the White Spine which differs from the parent in that the color is uniform dark green, which is retained much longer and is affected less by hot sun than in any other sort. It is especially valuable for southern planters but can be used profitably in the North. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

DANDELION

One would hardly think of giving up land to cultivate Dandellions, yet the cultivated plants are far superior to those that grow thickly in the lawn or over the fields. If the leaves are tied together, the center of the plant will blanch white and clear as endive. The seed-bed should be made fairly rich, and after the plants come up thin them out to about 1 foot apart. Have the soil freely cultivated and allow no weeds to grow. An ounce of seed will sow about 100 feet of drill.

IMPROVED FRENCH. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

SWEET CORN

Growing Corn in the Garden. Sweet or Sugar Corn is quite likely to rot if it is planted when the ground is cold or wet. We do not advise planting until about the middle of May, or possibly later, depending on the condition of the soil, which should be warm and dry. If the planter desires a continuous supply of Sweet Corn during the whole season, he should plant the seed every ten days or two weeks until about the first of July. Some of the extra-early varieties can be planted even the first week in July, and will mature a fairly good number of ears before the frost gets the plants. The old method is to plant Corn in hills, but some of the more modern gardeners do not "hill up" soil around the stalks in garden culture. If the hill method is used, they should be made about 2 by 3 feet apart for the early kinds, and about 3 by 3 feet for the later sorts. Keep the soil well cultivated and loose throughout the season. The loose soil helps to hold moisture in the ground, which is of great benefit to the growing plants. One quart of seed will plant from 200 to 300 hills; eight to ten quarts of seed will be required for an acre.

EARLY VARIETIES

DE LUE'S GOLDEN GIANT. See circular for description.

2 ozs. 35 cts., 4 ozs. 50 cts., 8 ozs. 85 cts., lb. \$1.50, postpaid.

GOLDEN BANTAM. This is a superb Corn for the home-garden. The ears are of medium size, tender and sweet, and come extremely early in the season. The cooked ears are a rich creamy yellow in color. Retains its rich flavor, sweetness, and tenderness longer than other varieties. In a market where customers will buy yellow Corn it is bound to be popular and profitable. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.50, bus. \$9.

BANTAM EVERGREEN. This is a very fine, large-eared, deep grained yellow Sweet Corn produced by crossing Golden Bantam and Stowell's Evergreen. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.50, bus. \$9.

EXTRA-EARLY CORY. (White Cob.) Large ears with small cob; is well filled to the tip and the butt; kernels very sweet. $\frac{1}{2}$ pt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2, bus. \$7.

EXTRA-EARLY MINNESOTA. An earlier strain of the old Minnesota; desirable for market and private gardens. $\frac{1}{2}$ pt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2, bus. \$7.

EARLY EVERGREEN. This variety is from ten to twelve days earlier than Stowell's Evergreen; the plant is not quite so tall as Stowell's, but it yields large ears, for an early Corn. $\frac{1}{2}$ pt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2, bus. \$7.

EXTRA-EARLY ADAMS. Not usually considered as Sugar Corn. Used extensively for a first-early table Corn. $\frac{1}{2}$ pt. 10 cts., pt. 15 cts., qt. 30 cts., pk. \$1.50, bus. \$5.50.

FORDHOOK. A very early, large-eared variety. A few days earlier than Cory. Eight-rowed ears, with small cob and deep grains. $\frac{1}{2}$ pt. 15c., pt. 20c., qt. 35c., pk. \$2, bus. \$7.

PEEP-O'-DAY. Unusually early and of superior flavor; can be planted successfully either early or late in the season. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.50, bus. \$9.

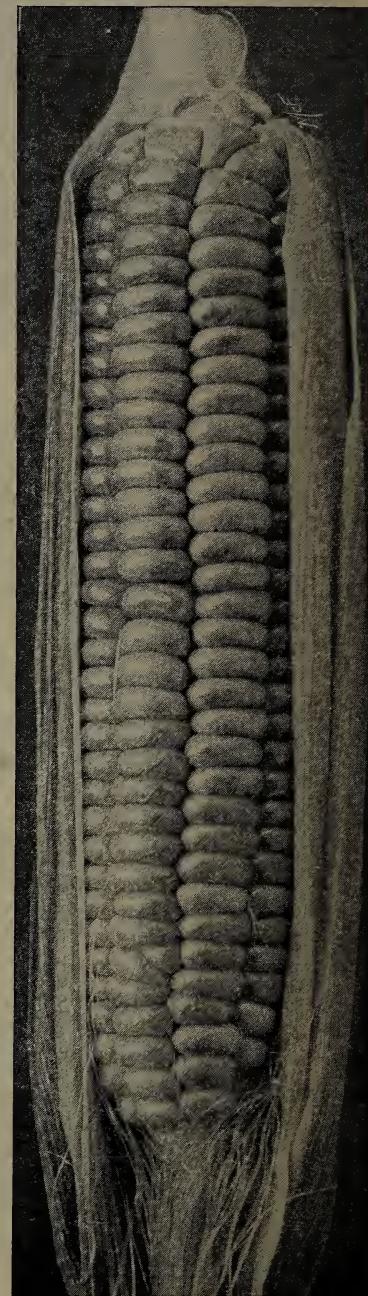
PREMO. One of the few really good extra-early sorts. The ears are large and reasonably sweet; profitable because of its earliness. $\frac{1}{2}$ pt. 15c., pt. 25c., qt. 40c., pk. \$2.25, bus. \$8.

KENDEL'S EARLY GIANT. A second-early variety, with ears from 6 to 8 inches in length; usually twelve-rowed; of good quality and very productive. $\frac{1}{2}$ pt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2, bus. \$7.

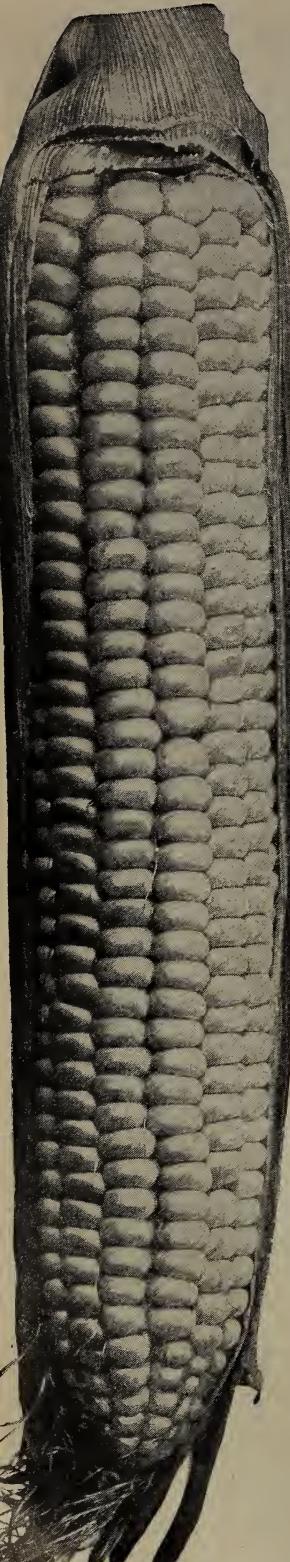
EARLY CHAMPION. Ready for use about the same time as Kendel's Early Giant. Ears about the same size, usually twelve-rowed; the grains are large, milky white, sweet and tender. $\frac{1}{2}$ pt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2, bus. \$7.

EARLY MAMMOTH. Probably the earliest and largest of the so-called mammoth varieties. Ears from 10 to 12 inches long. One of the best-known varieties. $\frac{1}{2}$ pt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2, bus. \$7.

SHEDAKER'S CHOICE. A few days later than Adam's Early and ears much longer—from 12 to 14 inches. The ear is thick, with straight, uniform rows of grains. This Corn is slightly sweet, resembling Sugar Corn, and produces two and often three good ears to the stalk. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 50 cts., pk. \$3.25, bus. \$12.



GOLDEN BANTAM SWEET CORN



SCOTT'S EARLY PERFECTION
SWEET CORN

EARLY SWEET CORN, continued

GOLDEN CREAM. A late addition to the Sugar Corn family, the original stock coming from California. Produced by crossing Golden Bantam on Country Gentleman. The ears are about the size of Golden Bantam; rich cream color when ready for the table, but turn to light golden yellow in cooking. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.50, bus. \$9.

COLUMBUS MARKET. May be considered the earliest of the second-early sorts. The ears are of good size, carrying sixteen rows of deep white kernels. Second to none in tenderness and flavor; especially adapted for early trucking. $\frac{1}{2}$ pt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2, bus. \$7.

POCAHONTAS. The introducer claims this to be the earliest of the Sweet Corns. It was originated by a truck-gardener near New York City. The ears are of medium size and usually are filled from the butt to the tip with good-sized grains. May be planted earlier than many other varieties of Sweet Corn. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.50, bus. \$9.

SCOTT'S EARLY PERFECTION. We introduced this variety about eight years ago, and it has been tested thoroughly by market-gardeners and in the home-garden; it matures very early and each year it has become more and more popular. The quality is superior and its productiveness makes it a profitable sort for market-gardeners. As a general rule the ears are ready for use within five or six days after the extra-early sorts. The ears run from 6 to 10 inches in length, with ten or twelve rows of kernels. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.25, bus. \$8.

HOWLING MOB. A second-early Corn of delicious flavor. This variety is planted extensively in the neighborhood of Pittsburgh; the gardeners claim it is superior to most sorts and sells readily on the market. It has a very large ear for an early variety. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.25, bus. \$8.

EARLY MAYFLOWER. One of the very earliest of the white Sugar Corns, maturing about a week earlier than the Cory varieties. Ears run from 6 to 7 inches long, with eight or ten rows. There are frequently two ears to the stalk. Quality fine. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.50, bus. \$9.

BLACK MEXICAN. Probably the sweetest of all the Sweet Corns. The ear is mottled with black and white grains, the darker grains becoming a violet shade when cooked. A splendid sort for the home garden, but on account of the color does not have large sale in the markets. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.50, bus. \$9.

MEDIUM AND LATE VARIETIES

STOWELL'S EVERGREEN. This is an old sort, but still holds its place at the top of the list of late varieties. The ears are very large, from 8 to 10 inches long, with fourteen to twenty rows of kernels, which are unexcelled in sweetness. It is a superior variety for the market-gardener and for the home-garden. $\frac{1}{2}$ pt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2, bus. \$7.

COUNTRY GENTLEMAN. The grains are set irregularly on the cob, which gives it a peculiar appearance and identifies the variety at all stages of its growth. The ears are medium in size and extremely sweet and palatable. Our seed of the Country Gentleman Corn has been secured from one of the best growers, who has raised it for us upon contract. We are sure it is true to name and of the very finest type. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.50, bus. \$9.

ZIG-ZAG EVERGREEN. Ripens a few days earlier than Stowell's Evergreen and seems to be equally good in quality. $\frac{1}{2}$ pt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2, bus. \$7.

WHITE EVERGREEN. The stalks are vigorous, often 7 feet in height. The ears usually contain sixteen rows of deep white grains. Matures a few days earlier than Stowell's Evergreen. $\frac{1}{2}$ pt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2, bus. \$7.

LATE MAMMOTH. Very large ears, with fourteen to eighteen rows of sweet and tender kernels. Valuable as a succession. $\frac{1}{2}$ pt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2, bus. \$7.

POP-CORN

WHITE RICE. The most popular sort for general use. Prices on the ear, lb. 15 cts., 2 lbs. 25 cts. If wanted by mail, add 8 cts. for one pound, 12 cts. for three pounds.

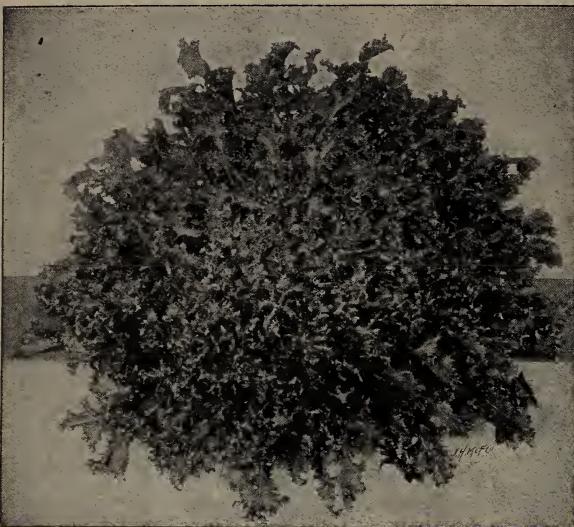
JAPANESE HULL-LESS. Far superior to White Rice in quality and two weeks earlier. Usually in popping condition in November. Pops almost hull-less. A heavy yielder. Prices on the ear, lb. 40 cts. By mail, 8 cts. per lb. extra.



COUNTRY GENTLEMAN SWEET CORN



STOWELL'S EVERGREEN SWEET CORN



GREEN CURLED ENDIVE

ENDIVE

Endive is used as a salad plant in autumn and winter. The seed may be sown in spring, or even in midsummer, in shallow drills which are about 15 inches apart; when the plants come up, thin them out so that they will stand about 12 inches apart in the row. A short time before the plants are wanted for use, tie the outer leaves to center of plant so the heart will blanch. Two ounces will sow about 300 feet of row; three pounds of seed will be required for an acre.

GREEN CURLED. The leaves are finely cut, dark green in color, and easily blanched to a clear white. Probably this is the hardest variety. Pkt. 5 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.50.

WHITE CURLED. Foliage is finer than the Green Curled, but similar in color and in general characteristics. Pkt. 5 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.50.

BROAD-LEAVED. The leaves of this variety are broad, light green in color and with a comparatively smooth edge. Pkt. 5 cts., oz. 15 cts., 1/4lb. 40 cts., lb. \$1.50.

EGGPLANT

Eggplant is a tropical vegetable, and is more at home in South America than in other parts of the western continent. It requires considerable heat, especially when the plants are small; therefore, the seed must

be sown in hotbeds in March or early April. The seed can also be sown in flats and kept in a light room where the temperature will average about 75 degrees. When the first two leaves are formed, the plants should be lifted from the flats and reset in beds with 3 or 4 inches of space between the plants. Keep the temperature uniform by shading from the direct sun, likewise keep the ground moist. When the weather is warm, and danger of cold nights or late spring frosts is past, the plants may be exposed to the open air and gradually hardened off. Transplant the latter part of May or the first of June. Set the plants about 2 1/2 feet each way, and when about 1 foot high draw the soil up around the stem to support the plant. One ounce of seed will produce 1,000 plants.

NEW YORK IMPROVED PURPLE SPINELESS. Plants bear from six to eight large, round, dark purple fruits, absolutely free from spines. Pkt. 5 cts., oz. 40 cts., 1/4lb. \$1.50, lb. \$5.

BLACK BEAUTY. Under normal conditions this variety is from a week to ten days earlier than the purple sort. The fruit is entirely free from spines, of extra-large size, in color rich purplish black, and one of the most attractive sorts in the market; the quality is exceedingly fine. Pkt. 5 cts., oz. 40 cts., 1/4lb. \$1.50, lb. \$5.

HORSE-RADISH ROOTS, Maliner Kren

A new variety superior to the old common kind. 15c. per doz., 80c. per 100, \$7.50 per 1,000.

KALE

This vegetable is also known as Borecole. For early use, sow the seed in September and protect the plants during the winter. Seed may be sown from the middle of April to the first of May for spring use, and the plants transplanted and cultivated in the same way as cabbage is cared for. An ounce of seed will sow from 200 to 300 feet of drill; four pounds for an acre.

DWARF CURLED SCOTCH. One of the best for winter use and will stand extremely low temperature without protection. Pkt. 5 cts., oz. 25 cts., 1/4lb. 75 cts., lb. \$2.25.

TALL CURLED SCOTCH. Very similar to Dwarf Scotch except in size of the plant. Grows 24 to 30 inches high. Pkt. 5 cts., oz. 25 cts., 1/4lb. 75 cts., lb. \$2.25.

SIBERIAN. An excellent plant for spring greens. Pkt. 5 cts., oz. 15 cts., 1/4lb. 50 cts., lb. \$1.50.



NEW YORK IMPROVED EGGPLANT

DWARF GERMAN. The leaves are yellowish green and beautifully curled; fine for garnishing. Pkt. 5 cts., oz. 15 cts., 1/4lb. 50 cts., lb. \$1.50.

KOHLRABI (Sometimes called the Turnip-Rooted Cabbage)

Should be used when it is half-grown, as when it is full grown it is tough and fibrous. For spring plants, sow the seed in the hotbed and transplant and cultivate the same as for cabbage. For winter use, sow the seed outdoors from June 15 to July 15; thin out to stand 8 inches apart. An ounce of seed will sow about 250 feet of drill.

WHITE VIENNA. This is one of the earliest sorts on the market. The top is very short and the bulb forms quickly after the plant comes up. The flesh is white, tender and desirable in every way. Pkt. 5 cts., oz. 25 cts., 1/4lb. 75 cts., lb. \$2.50.

EARLY LARGE PURPLE. This is another early variety that can be used for early planting out-of-doors, or forced in the house. The bulbs are of medium size, with purple skin and white flesh. Pkt. 5 cts., oz. 25 cts., 1/4lb. 75 cts., lb. \$2.50.

LARGE GREEN, or WHITE. This variety is generally used for stock-feeding, but if cut when small the bulbs are satisfactory for table use; as they get older they are inclined to be tough and stringy. Pkt. 5 cts., oz. 25 cts., 1/4lb. 75 cts., lb. \$2.50.



WHITE VIENNA KOHLRABI

LETTUCE

Lettuce in the Garden. For extra-early use in the spring Lettuce may be sown in the seed-bed in September or October and protected through the winter in coldframes. It is also possible to secure early plants by sowing seed in the hotbed from January to March. If one cares to take the trouble, plants may be secured by sowing the seed in flats and setting the boxes at a sunny window in the house. Whether the seed is sown in the hotbed or in the open garden, the soil should be made as mellow and fine as possible; mark off rows from 2 to 4 inches apart, and sow the seed thinly in these trenches, covering with about a quarter of an inch of soil. When the plants come up they may be thinned out or carefully lifted and transplanted into rows, leaving about 12 inches each way between the plants; this is the method by which the large heads are secured for market. Seed may be sown until well into July, the late sowing producing plants of marketable size in the fall. An ounce of seed will produce about 3,000 plants, or about 150 feet of drill; four pounds of seed will be required to sow an acre.

GRAND RAPIDS. This is especially adapted for greenhouse cultivation for the winter markets. It is, likewise, a good variety for sowing in the early spring. It does not form a solid head like many other varieties, but throws up large, compact bunches of crinkly leaves. It is a rapid grower, keeps in good condition for a long time, and, therefore, is one of the best sorts for shipping. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

EARLY CURLED SIMPSON, WHITE-SEEDED. Somewhat like the Grand Rapids, in that it does not form a head. The leaves are yellowish green, crinkled and curled. Splendid for growing in a coldframe for early use. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

BLACK-SEEDED SIMPSON. Especially a Lettuce for the market-gardener, although it is largely grown for home use. It forms a loose head, while the curled leaves are nearly white, large, thin, crisp and tender. The variety stands the heat of summer better than some other sorts, therefore it is excellent for late sowing. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

GOLDEN CURLED. A very fine, half-head variety, with golden fluted leaves. Stands up well in hot weather and slow to run to seed. Very showy and a good cutting sort. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

LARGE SUMMER CABBAGE. You can grow this variety all summer long and be sure of solid, crisp heads of light green Lettuce. Generally considered one of the best of the summer varieties. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

IMPROVED HANSON. Another summer variety, with outer leaves of bright green, while the center leaves, or the heart, are yellow-white as though they had been blanched. A great advantage is that it does not quickly run to seed, and the leaves retain their crispness and freedom from bitter taste until the plants are well grown. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.



GRAND RAPIDS LETTUCE

THE MORSE. A large, loose, bunching variety, forming a large bunch of leaves. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

BIG BOSTON, WHITE-SEEDED. This tops the list of head Lettuce for marketing, and in the South is grown to the practical exclusion of all other heading varieties. It does particularly well during the fall and spring months. The color is light green, the leaves are broad, thin, grow compactly, making a comparatively solid head. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

BIG BOSTON BLACK-SEEDED. Similar to Big Boston White-seeded, but grows a larger and more solid head. Especially adapted to indoor culture. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

BROWN CHARTIERS. A half-head variety similar to Golden Curled, except that the edges of the leaves are of a bronze color. Very crisp and tender. Not recommended for greenhouse or hotbed culture. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

MAMMOTH BLACK-SEEDED BUTTER. Exclusively used for outdoor culture and also for growing in coldframes for early spring use. The leaves are smooth, brittle and quite thick. Stands a long time without going to seed. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

MAY KING. One of the later introductions, with medium-sized solid head, outer leaves light green in color, with the center leaves rich golden yellow. The plants grow rapidly and do not seem to be affected by cold or wet weather. It is an ideal sort for outdoor planting. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

CRISP AS ICE. A cabbage Lettuce, with heads of large size that have a rich, creamy yellow heart. The outer leaves are dark bronzy green, handsomely crimped and curled. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

COS or ROMAINE, WHITE PARIS. Distinguished by the upright compact growth of the leaves. The heart can be made extremely tender by tying the outer leaves at the top, thus permitting the center to blanch. It is especially an outdoor Lettuce. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

NEW YORK, or WONDERFUL. A splendid large-heading and long-keeping variety, sweet, tender, and crisp. Perfect heads. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

ICEBERG. A large-heading variety of Lettuce which is crisp and brittle; color bright green, lightly tinged with brown on top of the head; leaves curled on the edges. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.



MAY KING LETTUCE



LARGE LONDON LEEK

LEEK

This vegetable is a relative of the onion family, and in all probability the original plants came from the region of the Mediterranean. Leek is cultivated principally for the leaves and leaf-stalks; the roots are of little value. The whole plant possesses a strong, pungent odor, and the principal use is for flavoring soups and stews, and it is a favorite vegetable among a large class of our people. The seed should be sown in a light soil, and when the plants are from 5 to 6 inches high, transplant so that they may stand about 6 to 8 inches apart. At the time of transplanting it is a good plan to cut back the plants one-half or one-third of their height. Two ounces of seed will sow about 300 feet of drill; four pounds of seed will give sufficient plants for an acre.

LARGE LONDON FLAG. Probably the hardiest of the Leek family. The leaves are usually broad and of good quality. In flavor it is one of the strongest. Popular for all market purposes as well as for the home garden. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

MUSSELBURG. Commonly called Carentan. This is not so strong in odor or flavor as some of the other varieties. It is, however, hardy and produces large leaf-stalks. It is one of the most profitable to grow, as it always brings good prices in market. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

WATERMELON

Melons in the Garden. Gardeners usually think that Watermelons should be raised in a light, sandy soil. This is not altogether correct, for good melons can be raised in a heavy soil, provided it is well fertilized and supplied with humus. There is no use in planting seed until the ground is warm, for if planted when the ground is cold and wet the seed will not germinate. Make the hills from 8 to 10 feet apart each way, adding to the soil a shovelful of well-rotted manure or a little commercial fertilizer. Ten to a dozen seeds may be dropped in each hill, and after the plants are up and sufficiently large to resist the attacks of insects, pull out all but three or four of the strongest plants. If the yellow-back beetle becomes so numerous as to injure the plants, slug-shot or bordeaux-lead arsenate dusted or sprayed over the leaves will hold the pests in check. An ounce of seed will plant about twenty to twenty-five hills, and four pounds of seed will be required for an acre.

SWEETHEART. An exceptionally early variety, and one of the most desirable of melons. Of fine size and shape, the outer skin is mottled with light and dark green; the flesh is a bright red, firm and solid, with comparatively few seeds. The melons can be kept for some time after ripening without impairing their quality; this makes it a good shipping sort and profitable for the gardener. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

KLECKLEY SWEETS. A melon that is almost as sweet as honey, and particularly valuable for the home garden or for nearby markets. It does not carry for a long distance on account of the thin skin. Melons are about 20 inches long, with thin rind, bright scarlet, solid flesh; the flavor is superb. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

TOM WATSON. The best of the long varieties for shipping long distances; often exceeds 24 inches in length and 12 inches in diameter. Dark, mottled green rind which is thin but strong. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

CITRON

Citron is used only for preserving, and is usually purchased from the stores in a candied or dried form. There isn't any reason why it should not be grown in any garden, as the cultivation is practically the same as for the watermelon. More than this, if you grow it in a garden you will know just what you are getting and be absolutely sure that the fruit is fresh and good.

RED-SEEDED. Flesh is firm and solid, with comparatively few seeds. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

GREEN-SEEDED. Also called Colorado Preserving. Oblong and very large. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.



TOM WATSON WATERMELONS

MUSKMELO (Cantaloup)

As with the watermelon, it is useless to plant the seed until the ground is dry and warm. The hills may be a little closer together, say 5 or 6 feet apart each way, and the fertilizer should be mixed thoroughly with the soil, as in watermelon culture. Drop six to eight seeds in the hill, and later on, after the insects have been destroyed or left, pull out all but three or four of the strongest plants. Some gardeners prefer to plant the seed in rows from 5 to 6 feet apart and then, when the plants are well up, thin to 4 to 5 feet apart in the row. You will get a good stand of plants this way, without regard to what the bugs may do. If the vines grow too long and rank the ends may be pinched off. The roots of the Muskmelon grow comparatively near the surface of the soil, therefore the cultivation must be shallow. An ounce of seed will plant about sixty hills, and two or three pounds will plant an acre. If the row method is used, an ounce of seed will sow about 150 feet, and four pounds will be required for an acre.

EXTRA-EARLY HACKENSACK. A selection from the old Hackensack melon, ripening from a week to ten days earlier.

The skin is netted and deeply ribbed. The flesh is light green; of good quality; the fruit is slightly flattened at the stem and blossom ends. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

HACKENSACK, or TURK'S CAP. A green-fleshed melon of large size, with a thickly netted skin. Vines are rapid growers and set a goodly number of melons. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

MILLER'S CREAM. Also known as the Osage melon. A good sort for market-gardeners because of the tough skin, which permits handling and shipping. It is of medium size, oval form, olive-green. Flesh thick, of fine texture, light salmon-pink. Seed-cavity small. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

EMERALD GEM. Small; the fruit is flattened at both the blossom and stem ends. The skin is smooth, bright green, with narrow stripes of light green. Flesh is thick, deep, rich salmon in color. The fruits should be picked just as soon as they are ripe, and stored in a cool place; if permitted to remain on the vine the skin becomes yellow and the flesh soft and tasteless. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

TIP-TOP. One of the finest salmon-fleshed varieties. Sweet, juicy, of the finest flavor; eatable almost to the rind. The fruit is of large size; comes about midseason, and is borne very freely. Highly recommended for planting in the latitude of Pittsburgh. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

HONEY DEW. A very fine new variety. The skin is smooth, with little netting, and creamy yellow when ripe. Flesh is very thick and can be eaten almost to the rind. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.



TIP-TOP MUSKMELONS

ROCKY FORD. A selection from the old Netted Gem melon, but a great improvement in every way. Rocky Ford is one of the best melons for shipping. The fruit is oval in shape, covered with a coarse netting and slightly ribbed. The flesh is green, thick, solid to the rind, sweet, juicy and of extremely high quality. One of the finest of all melons, and always in demand in market. As a general thing the fruits will weigh from one to one and a half pounds each. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

MUSHROOMS



As a general thing Mushrooms are not grown by the gardener; but there is no reason why they should not be raised by anyone who has a cellar, or dark room, where the temperature can be kept at from 50 to 60 degrees. The soil should be a sandy loam, if possible to procure it, but if not, secure the top-soil from an old pasture. To every bushel of soil add about two bushels of fresh horse manure, thoroughly mixing both; then prepare a bed 3 feet wide, put down a thin layer of the mixture, pack it hard and keep on with this method until the bed is about 8 inches thick. When the temperature in the bed goes down to about 85 degrees, make holes about 1 foot apart and put in small pieces of the spawn. Cover the holes, press the soil slightly; at the end of ten or twelve days cover the bed with fresh soil only, and on top of this put 4 or 5 inches of hay or straw. If an even temperature is maintained you may expect to gather Mushrooms in from six to eight weeks, and the bed will continue to produce for nearly a month. A second crop is sometimes secured by covering the bed with a light fresh soil, which is wet down with warm water and re-covered with hay. We furnish special printed directions free with each order for Lambert's Pure-Culture Spawn, or for 15 cts. we will send, postpaid, an illustrated book on Mushroom-Culture, which not only gives the latest improved methods of culture, but full instructions for preparing for market and receipts for cooking.

LAMBERT'S PURE-CULTURE "DIRECT" MUSHROOM SPAWN. 1 brick, 30 cts.; 10 bricks, \$2.50; 50 bricks, \$11; 100 bricks, \$20. If wanted by mail, postpaid, add for 1 brick, 10 cts.; 3 bricks, 15 cts.; 5 bricks, 20 cts.



PRIZETAKER ONION

extremely hard, solid and above the average in size. The skin is clean silvery white and the flavor mild and sweet. Our Yellow Globe Danvers Onion seed is adapted to almost any section or climate. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

YELLOW DUTCH, or STRASBURG. A flat Onion, with fine, clean, mild, white flesh. An old standard variety and particularly good for sowing for sets. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

WHITE PORTUGAL, or SILVERSKIN. A flat Onion that is especially desirable for pickling, as the skin is clean silvery white and the flavor mild and sweet. If it is grown for pickling, seed should be sown at the rate of twenty-five pounds to the acre. The variety can also be grown for general commercial purposes, and the bulbs will grow to a good size, coming to maturity a little earlier than the ordinary white Onions. Pkt. 5 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

PRIZETAKER. This is one of the largest fancy yellow Onions, and sometimes is sold under the name of Spanish Onion. It is globe-shaped, almost like a ball; pale yellow skin, with white flesh. Used extensively to grow large Onions from seed. Pkt. 5 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

SOUTHPORT WHITE GLOBE. Southport Onions are of



SOUTHPORT WHITE GLOBE ONIONS

ONION

Onions in the Garden. The average person's taste seems to crave in early spring the little Onions that are found in the market or growing in the home garden. It is a simple matter to get these little Onions, for they can be raised from seed or sets. Onion seed can be sown extremely early in the spring, and the usual custom is to make drills about 15 inches apart; after the plants come up, they are thinned out to about 2 inches apart in the row.

If Onion sets are used, they should be planted just as early in the spring as the ground is in condition to work; push the bulb into the soil, but do not cover over, allowing about 2 inches of space between each of the sets. When the little plants are from 6 to 8 inches high they will be ready for use. As the season advances the bulb will develop, and as soon as signs of going to seed are observed, bend the top over but do not break it off. The crop of Onions from these sets can be harvested during the month of July. One ounce of seed will sow about 100 feet of row, and five to six pounds will be required for an acre.

EXTRA-EARLY RED. A flat Onion growing very uniform in size. The Onions are ready for use a little earlier than the Wethersfield. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

LARGE RED WETHERSFIELD. The popular standard flat Onion for northern markets. The Onions are of extra-good size, with a deep purplish red skin, with white flesh having threads of purplish tinge. The variety is an excellent keeper, but is inclined to be quite strong in flavor. The Red Wethersfield is an extra market variety and can be stored for winter sales. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

YELLOW DANVERS, FLAT. The bulbs are slightly flattened, with a very thin neck. The skin is a light yellow, the flesh is white, fine-grained and quite mild. A good sort for the home garden and for market. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

YELLOW GLOBE DANVERS. The standard round Onion for eastern markets in general. These bulbs come early in the season and are brownish yellow, the flesh pure white, crisp, with sweet, mild flavor. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

ONIONS, continued

tecting them from rain or dew which causes discoloration of the bulbs. Pkt. 5 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

EARLY WHITE WELSH. An extra-early sort, especially desirable for bunching, as the bottoms are very small. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

WHITE BUNCHING. A mild-flavored Onion especially good for early spring use. If allowed to mature, the bulbs will be large and still continue to be mild. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.



ONION SETS

WHITE. Qt. 30 cts., pk. \$1.75, bus. \$5.

POTATO ONION SETS. Qt. 30 cts., pk. \$1.75, bus. \$5.50.

If wanted by mail, add for 1 qt. 10 cts., 2 qts. 12 cts., 3 qts. 15 cts. Special prices on large quantities quoted on request

MUSTARD

When the leaves are young and small they may be used as a salad or boiled and served like spinach. Seed should be sown every two weeks, using about an ounce of seed for each 75 feet of row, in the open ground. Seed may also be sown in a coldframe, a hotbed or even in a greenhouse, and the plants will come on for use during the winter months.

SOUTHERN GIANT CURLED. Seed should be sown in early spring. Plants are used as a salad when young, or cooked the same as spinach when more matured. The plants grow unusually tall, frequently reaching 2 feet in height. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

WHITE. The leaves can be used in three or four weeks after the seed is planted, and can be cut until late fall. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

OKRA

In the South this vegetable is commonly called "Gumbo," and when the seed-pods are quite small they are used for flavoring and thickening soups. The pods must be used when small, for as they mature they get hard and stringy. If early plants are desired, sow the seed in a hotbed and then reset the plants in the open ground. Later in the season the seed may be sown outside, in drills about an inch deep and about 2 feet apart. When the plants are up, thin them out so they will stand about 1 foot apart in the row. One ounce of seed will sow about 25 feet of row, and approximately twenty pounds will be required for an acre.

LONG GREEN. One of the older sorts that bears quantities of pods, 4 to 5 inches in length, deep green in color, and comparatively slow in ripening. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

DWARF PROLIFIC. A low-growing plant that produces quite early in the season. The pods themselves are about average length—4 or 5 inches—and are produced very freely. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

PARSNIP

The soil for Parsnips should be spaded from 12 to 14 inches deep, because the roots go deep into the ground, and unless the subsoil is fairly loose the roots are likely to spread rather than grow in one long tap-root. The simplest way is to sow the seed in drills, covering it half an inch; after the plants are up, thin them out so that they may have at least 6 inches of space between the plants.



YELLOW GLOBE DANVERS ONION

ONION SETS

We carry a selected stock of Onion Sets in both white and yellow sorts, on which we quote the following prices, which are subject to market changes:

YELLOW. Qt. 25 cts., pk. \$1.50, bus. \$4.50.



LONG GREEN OKRA

PARSNIP, continued

Parsnips are extremely hardy, and the crop may be left in the ground until late autumn or even all through the winter, the roots being dug as required. If it is necessary to dig them in early winter they may be stored in the cellar in sand or earth, but you will find they are much better if they are left outside in the open ground. Two ounces of seed will sow about 300 feet of row; eight pounds will be required for one acre.

HOLLOW CROWN. This variety is also known as "Student" and "Long Smooth." The root grows about four times as long as it is broad at the crown. The skin is white and the flesh when cooked is a very delicate orange. The Hollow Crown is essentially a table vegetable. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

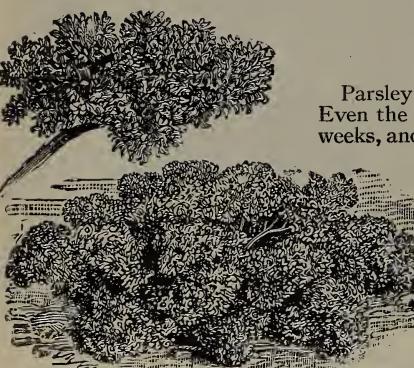
GUERNSEY. Thicker than the preceding variety. The skin is white and the root is fine-grained, with practically no hard center. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

MALTESE HALF-LONG. Roots fine-grained; skin ivory-white; fine quality. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

WHITE LISBON. Similar to Hollow Crown, but smoother and with whiter skin. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.



HOLLOW CROWN PARSNIPS



DOUBLE-CURLED PARSLEY

PARSLEY

Parsley seed is extremely slow in starting into growth. Even the very freshest seed will require from six to eight weeks, and older seed will require a proportionately longer time, even if it starts at all. In the course of two or three months after the plants appear, you will be able to cut some of the leaves and, as the summer advances, the plants will increase so that quantities of leaves may be cut for various purposes. Parsley-beds may be carried over the winter if given a careful mulching of leaves, or preferably, build a frame around the plants, covering them with a sash. Two ounces of seed for 300 feet of row; eight pounds for an acre.

DOUBLE-CURLED. The foliage of this variety is deeply cut and crinkled, the segments often turning back an inch and a half or more. The color is a deep green; a most valuable sort for garnishing. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

CHAMPION MOSS CURLED. This is one of the hardy varieties that can be cut the year round. The leaves are crimped and curled somewhat like the preceding sort. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

PLAIN, or SINGLE. The flavor of the Single Curled Parsley is rather stronger than that of the other varieties, and on this account the variety is especially good for flavoring. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

HAMBURG, TURNIP-ROOTED. Similar to the above, except that the roots are only about half as long. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

PEPPER

Plants of Pepper should be grown in the same careful manner as eggplant. They are natives of a warm climate and, therefore, in our colder sections must be given protection so that they may not be injured by cold weather. Sow the seeds in flats some time during the month of March, and when they show the second or third leaf they should be transferred into small pots or into flats, setting them 4 to 5 inches apart. One ounce of seed will produce about 1,500 plants.

RUBY KING. A red Pepper bearing large fruits somewhat of the shape of the Bell or Bull Nose variety. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

SWEET SPANISH. A large, rich scarlet Pepper of exceptionally mild flavor. One of the few good sorts for baking or for mangoes. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

BULL NOSE. The fruits are deep green, turning to a vivid scarlet as they mature. Flesh is mild, quite thick and fine for slicing. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

LONG RED CAYENNE. The pods are cone-shaped, bright scarlet, rather small, and produced very freely on the plants. Both the odor and flavor are extremely pungent. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

SMALL CAYENNE. Pods bright red; 1 to $1\frac{1}{2}$ in. long. Pkt. 10c., oz. 50c., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

CHINESE GIANT. The plants of this variety grow about 2 feet tall, and produce a large number of extra-large bright scarlet Peppers. The flesh is thick with small seed-cavities. Pkt. 10 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.25, lb. \$8.

RUBY GIANT. Very large; deep red; mild; desirable for slicing or for mangoes. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

PIMENTO. This variety was introduced from Spain and we believe it to be a very valuable addition to the present varieties, as it has qualities superior to any of the well-known kinds. While not so large as the Chinese Giant, it is heavier on account of its extremely thick flesh, which has a mild, sweet, yet deliciously pungent flavor when used either green or ripe. The plant is very prolific, producing a large number of Peppers, each weighing from five to ten ounces. Choice specimens have been known to weigh as much as twelve ounces each. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.



RUBY GIANT PEPPER

GARDEN PEAS



GRADUS PEAS

Peas in the Garden. As a general thing, the smooth-seeded sorts are considered hardier than the wrinkled varieties and therefore can be planted a little earlier in the spring. The rows for the garden can be made double, with 6 to 8 inches of space between the rows. For convenience in cultivating and picking the crop, something like 3 feet of space should be allowed between the double rows. If grown in the open field, the single-row method is better and space can be allowed for a horse cultivator. The early sorts can be sown as soon as the ground is fit for working in the spring, and the sowing may be continued at intervals of about two weeks up to the first of July, which method will give a succession of Peas the greater part of the summer. A quart of seed will sow about 100 feet of single row; from one and one-half to two bushels will be required for an acre.

THOMAS LAXTON. (Wrinkled.) This is one of the superior extra-early Peas for the home garden and for early market. The vines grow from 2 to 3 feet high and produce quantities of pods containing from six to eight good-sized Peas. The quality is all that can be desired in any sort. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$4.50, bus. \$17.

GRADUS. (Wrinkled.) An extra-early Pea, much superior to all smooth sorts. The pods are long, usually containing from eight to ten Peas. The vine is $2\frac{1}{2}$ to 3 feet high. No sort introduced within the past few years has attracted quite so much attention as Gradus. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$4.50, bus. \$17.

LITTLE MARVEL. (Wrinkled.) One of the best new dwarf varieties. The vines are usually 12 to 18 inches high, and are wonderfully productive of blunt-ended, dark pods that are well filled with large Peas which are of excellent flavor and very tender. It will undoubtedly supersede the other extra-early sorts. Ready for use a few days before Gradus. As a dwarf, it is suited for the home garden or for market. $\frac{1}{2}$ pt. 25 cts., pt. 40 cts., qt. 75 cts., pk. \$5.25, bus. \$20.

PROLIFIC EARLY MARKET. (Smooth.) A smooth-seeded, extra-early sort which can be sown extremely early in the spring. Produces a goodly quantity of pods, well filled with Peas. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$3.50, bus. \$13.

FIRST AND BEST. (Smooth.) The pods of this variety are usually ready for picking from forty to forty-five days after planting the seed. The vines grow about 30 inches high and ripen the pods practically at one time. The Peas are of good quality. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$3.50, bus. \$13.

ALASKA. (Smooth.) An extremely early sort. The vines are about 3 feet high, producing quantities of pods. Peas are smooth, bluish green in color, of superior flavor and of excellent quality in every way. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$3.50, bus. \$13.

PEDIGREE EXTRA-EARLY. (Smooth.) A selected extra-early, smooth Pea. Vines about 30 inches high. Matures a week later than Alaska and bears much larger pods. $\frac{1}{2}$ pt. 20c., pt. 30c., qt. 60c., pk. \$3.50, bus. \$13.

PIONEER. (Wrinkled.) A dwarf, early variety with large, curved, dark green pods. The vines grow about 18 inches high. $\frac{1}{2}$ pt. 25 cts., pt. 40 cts., qt. 75 cts., pk. \$5.25, bus. \$20.

PRINCE EDWARD. (Wrinkled.) A large-podded variety that is very desirable for general crop for midseason and later. The vines grow from 3 to 4 feet high; the large pods are borne very freely and are well filled with Peas of an excellent quality. Prince Edward is one of the newer varieties of wrinkled Peas and bids fair to take a high place for market-gardeners or for home use. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.

LAXTONIAN. (Wrinkled.) A dwarf Pea from the gardens of the English introducer of Thomas Laxton, and in all probability Laxtonian is a selection from that variety. Large, curved, dark green, pointed pods; vines about 18 inches in height. May be classed as a second-early sort. $\frac{1}{2}$ pt. 25 cts., pt. 40 cts., qt. 75 cts., pk. \$5.25, bus. \$20.

SUTTON'S EXCELSIOR. (Wrinkled.) The plants are dwarf, seldom growing over 20 inches high. The seed is usually hardy and can be planted as early as the smooth sorts. The pods are large and broad, well filled, making an exceptionally good variety for home use. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.

NOTT'S EXCELSIOR. (Wrinkled.) A dwarf Pea that is extra early and of fine quality. The vines are vigorous in growth, but seldom reach more than 18 inches in height. The pods are of medium size, but filled to the very end with Peas, and are produced in large quantities. It is one of the standard high-grade sorts that is always popular in the market and with the home-garden planter. $\frac{1}{2}$ pt. 20c., pt. 35c., qt. 65c., pk. \$4.50, bus. \$17.

ALDERMAN. (Wrinkled.) This is one of the later sorts, the vines growing 4 to 5 feet high. The pods are dark green, often over 5 inches in length and containing from eight to ten large Peas. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.



THOMAS LAXTON PEAS

PEAS, continued

WORLD'S RECORD. (Wrinkled.) An early type of Gradus, maturing from two to four days earlier than the earliest strain of that variety. Pods are not quite so long but the Pea is of the same excellent quality. A very desirable sort for the market-gardener who desires a first-early with a large pod. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$4.50, bus. \$17.

MARKET SURPRISE. (Smooth.) Claimed to be earlier than the Alaska. The pod is considerably larger than the Pedigree Extra-Early or Alaska, and the Peas come to maturity all at one time. A good cropper that fills the demand for a large-podded, smooth-seeded first-early. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.

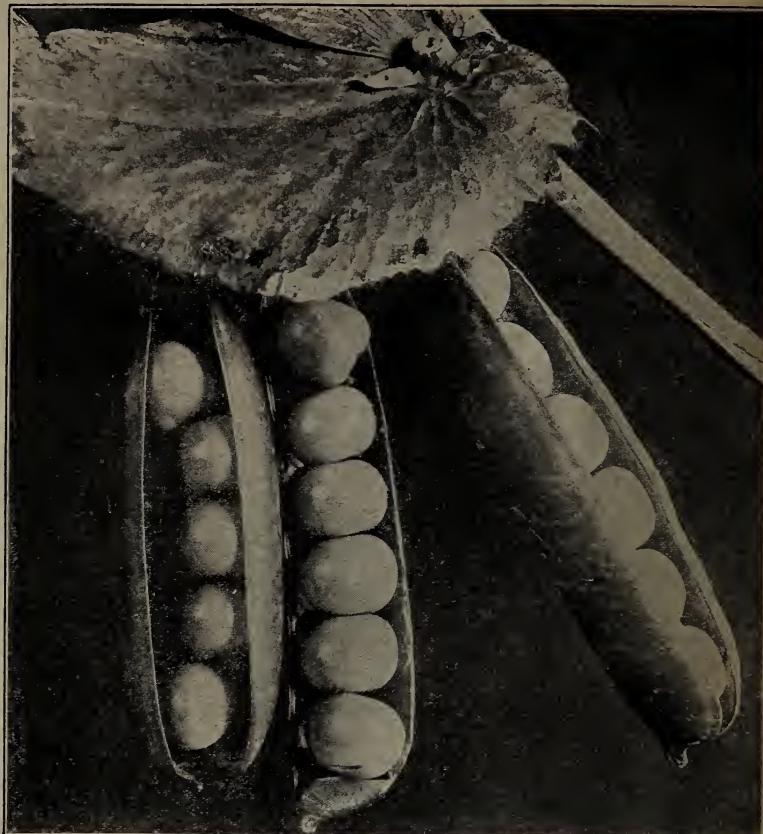
DUKE OF ALBANY. (Wrinkled.) A late variety that has made a name for itself with gardeners who want a standard Pea for market or home use. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.

DWARF TELEPHONE. (Wrinkled.) This is also known in the trade under the name of "Daisy." It is a medium-early wrinkled Pea, bearing well-filled, heavy pods. Vines grow about 2 feet high. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.

IMPROVED TELEPHONE. (Wrinkled.) The vines grow about 4 feet high. The pods are extra large and are filled with Peas that are of an immense size. A market-gardener will make no mistake in planting Telephone for his main-crop sort. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.

AMERICAN WONDER. (Wrinkled.) A dwarf variety, valuable because of its earliness and productiveness. The vines are about 12 inches in height and produce a profusion of good-sized pods. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.

DUKE OF YORK. (Wrinkled.) In the same class as Telephone, but earlier and more dwarf. Sweet and fine in flavor. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.



NOTT'S EXCELSIOR PEAS



KING OF MAMMOTHS PUMPKIN

POTLATCH. (Wrinkled.) This is a new introduction from England. The originator spent something like ten years in selecting and improving the variety before offering it to the trade. The vines grow about 2 feet tall, bearing a heavy crop of large, deep green pods, which are filled with from ten to twelve good-sized dark green Peas of an exceptionally fine flavor. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.

MAMMOTH-PODDED SUGAR. The whole pod of this variety can be cooked and served, and will equal snap beans in flavor and quality. The vines grow from 4 to 4½ feet in height. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 60 cts., pk. \$4, bus. \$15.

PUMPKINS

Pumpkin seed can be planted any time after the ground gets warm, the usual period being from the middle of May to the middle of June. It is customary to plant the seeds in hills, which are made from 6 to 8 feet apart each way, dropping from four to eight seeds in a hill. It is a good plan to pinch back the vines after they get 4 or 5 feet long; if large specimens are desired, permit only one or two to mature on each vine. One ounce of seed will plant about twenty-five hills; four to five pounds for an acre.

MAMMOTH GOLDEN CUSHAW. Grows to a large size; of a rich golden orange, although it is dark green in the early stages of growth. Flesh is a deep, rich yellow; thick, sweet and of fine flavor. One of the best of the Crooknecks. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. \$1.50.

PUMPKINS, continued

LIVINGSTON'S CUSHAW. This is the old standard Cushaw and a great favorite. Beautiful in appearance, mottled green, white-striped. Flesh yellow, fine-grained and sweet. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

SMALL SUGAR. The outer skin is deep orange; the Pumpkin is small, but has an exceptionally fine-grained flesh of excellent sugary flavor. The vines grow freely and set quantities of fruit. Notwithstanding the fact that this is a small-sized Pumpkin, it is one of the most satisfactory for house use. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

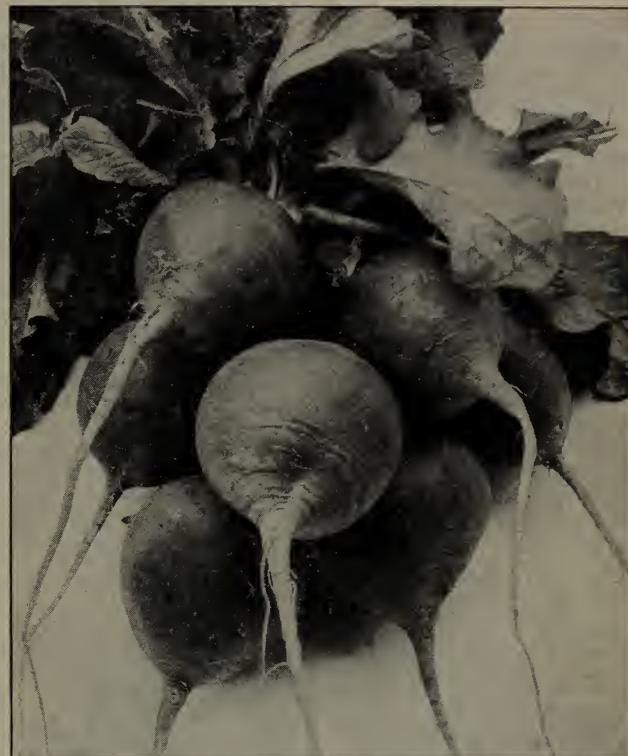
LARGE CHEESE. A flat Pumpkin with a rich buff-yellow skin. The fruit is large, of good appearance, which makes it a splendid sort for marketing, while the quality recommends it for home use and for canning. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

MAMMOTH TOURS. Pumpkins of this variety grow to an enormous size, frequently weighing 100 pounds or more. The flesh is rather coarse and is used principally for stock-feeding. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

KING OF MAMMOTHS. Another extra-large Pumpkin, almost round in shape, with slightly flattened ends. It is a splendid keeper and one of the best sorts for stock-feeding. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

CONNECTICUT FIELD. This is the common Pumpkin that we have known from boyhood. The fruit is produced in great abundance, is light yellow, but the flesh is coarse and usually suitable for stock-feeding only. Oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 90 cts.

KENTUCKY FIELD. Unlike the Connecticut Field Pumpkin this variety can be used for the table. The fruit is similar in appearance to the preceding, although it does not usually grow quite so large. Oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.



CRIMSON GIANT RADISHES

RADISHES

Radishes in the Garden. If there is any vegetable that may be considered as universal it is the Radish, for it can be grown almost anywhere. Of course, Radishes grow better in soil that is suited to them, but they are not particular in their requirements. If the soil in which they are grown is sandy there will be a great advantage; if the soil is inclined to be clay, mix in coal-ashes or sand or any other material that will tend to make the soil loose. Fertilizers may be used as required. For extra-early Radishes, sow the seed in a hotbed in February or early March, pulling out the plants as soon as they are large enough and show appearance of crowding. In the garden, the seed may be sown every ten days or two weeks from the middle of March to September, thus giving a succession of Radishes throughout the season. For garden culture, sow the seed in drills, not too thickly, and pull out the small plants when they begin to crowd each other. Another important thing in growing Radishes is to keep them moving from the very start—if they grow slowly they will be pithy and not of particular value for the table. With warm, light soil and reasonable cultivation any gardener can grow Radishes. One ounce of seed will sow about 100 feet of drill; eight to ten pounds will be required for an acre.

VERY EARLY WHITE-TIP FORCING. A beautiful bright scarlet Radish, with white tip. Nearly as early as Non Plus Ultra; small top. One of the best forcing varieties. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.50.

CINCINNATI MARKET. An extra-fine variety for growing under glass; tops are small and the roots grow from 5 to 7 inches in length; skin bright scarlet, very thin, with crisp and brittle flesh. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

FRENCH BREAKFAST. The upper portion of this Radish is bright carmine, while the tip is clear white; flesh is crisp, tender and of mild flavor. Good for both open-ground culture and for forcing. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

LONG SCARLET SHORT-TOP. This variety is ready for use in twenty to twenty-five days after planting the seed; the roots grow from 5 to 6 inches long, with about one-half their length above the ground. The outer skin is bright scarlet. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

EARLY SCARLET TURNIP. A particularly good sort for forcing; the roots are of medium size; perfectly smooth and will remain fit for use for some little time. The top is small, which permits close planting. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

EARLY SCARLET GLOBE. A popular forcing variety, owing to its very quick growth and fine bright scarlet color. Shape a trifle oblong. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

WHITE BOX. A turnip-shaped Radish, especially good for growing under glass. Rapid growth, with a remarkably small top, characterizes this variety. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

NON PLUS ULTRA. Said to be the earliest forcing variety. Roots are rather small, of perfect globe shape, and deep rich scarlet in color; flesh is clear white. The roots are ready for use in twenty days. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

WHITE STRASBURG. The roots of this variety are from 3 to 5 inches in length, clear white. Considered a leading market variety on account of the earliness and showy appearance. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

CHARTIER, IMPROVED. The selection is from the old Chartier Radish. The roots are larger than the old variety, and of deeper rose color, which shades to white at the bottom. A splendid sort for the open ground, growing very rapidly, coming into use twenty to twenty-five days after planting, with additional advantage in that the roots will keep crisp some time after maturity, and after pulling. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 30c., lb. \$1.

RADISHES, continued

WHITE LADY FINGER. An extra-fine garden Radish. Both skin and flesh are pure white; the flavor is quite mild, and the roots seldom become pithy, remaining in good condition for a considerable length of time. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

WHITE VIENNA. Almost identical with the White Lady Finger. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

WHITE STUTTGART. A late, pure white variety; roots grow rapidly and attain a large size; shaped somewhat like a top. Of good flavor and a good keeper; not liable to run to seed. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

MARKET-GARDENER'S LONG SCARLET. Identically the same as Long Scarlet Short-Top, but with a little larger top. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

GIANT BUTTER. A round, red Radish, in shape and appearance very much like Non Plus Ultra, but much larger; it grows quickly and is valuable for forcing. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

GOLDEN YELLOW OVAL. An oval Radish about $1\frac{1}{2}$ inches long; fine for forcing or the open ground. A good summer variety. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

ICICLE. A pure white Radish that grows about 4 inches long, somewhat stump-rooted in shape. A splendid variety for forcing or for successive sowing in the garden. Said to remain in good condition longer than other early varieties. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

BURPEE'S SCARLET BUTTON. A small, extra-early, bright red, round Radish. Will mature from eighteen to twenty days after sowing. The flesh is mild, crisp and pure white. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

CRIMSON GIANT. An early turnip-shaped variety; color carmine; flesh firm and does not become pithy. Highly recommended for garden planting as well as for forcing. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

WINTER RADISHES

LONG BLACK SPANISH. Roots are from 5 to 8 inches long and quite thick at the top. The skin is black, but the flesh is clear white. One of the best of the Winter Radishes. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

LONG WHITE SPANISH. Exactly like the preceding except in color of skin. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

CHINESE ROSE. The roots are from 3 to 4 inches in length, blunt at end and very smooth. Skin bright rose; flesh crisp and tender. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

ROUND BLACK SPANISH. In a good many markets the Round Radish is preferred to the long, and for such markets the Round Black Spanish should be grown. Similar to the Long Black Spanish excepting in the shape. One of the finest sorts for winter use. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

CELESTIAL. A new stump-rooted variety with white skin; the seed can be sown from the first of July to the middle of August, which makes it an especially good variety for market-gardeners. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

RHUBARB

A rich, sandy soil, wet but well drained, is best for Rhubarb. While it is frequently propagated from seed, only a percentage comes true. It is cheaper to grow from seed and discard untrue plants. The popular method, however, is to use young plants propagated from the crown. Set plants 3 by 6 feet. The best stems are produced the second year, but it continues to produce for several years. When the blossom-stalk appears, it should be cut back well into the ground. Set the crowns of the plants so that they are 1 inch under the surface of the soil. Choose a place where the soil will be moist at all times.

VICTORIA. The variety most generally in use. It comes fairly true from seed. Seed, pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25. Roots, 15 cts each, \$1.50 per doz.

SQUASH

Growing Squashes in the Garden. Like the melon, the Squash is a tropical vegetable and the seed should not be sown until the ground is warm and dry. The seed is usually planted in hills, which should be well fertilized. For the bush varieties the hills should be about 4 feet each way, and for the winter sorts from 10 to 12 feet each way. Use plenty of seed in each hill, twelve to fifteen anyway, so that the loss from insects will not be serious; after the plants get a good start, pull out all but four or five in each hill. The squash-vine borer may cause more or less trouble through the season, but the difficulty can be reduced to a minimum by sprinkling tobacco dust, or some other insecticide, close around the plants. The black squash bug can best be kept in check by hand picking, but spraying with arsenate of lead or slug-shot is the proper remedy for the striped beetle. One ounce of Squash seed will plant from fifteen to twenty hills; three to five pounds of seed will be required for an acre, according to variety.

FORDHOOK. This variety is good for both summer and winter use. The Squashes have a thin, light yellow skin, with a thick, straw-colored flesh. They grow from 8 to 10 inches long and are oblong in form. If they are allowed to ripen on the vine they can be stored and kept in good condition through the entire winter. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

MAMMOTH WHITE BUSH. An ivory-white Squash, round in form, with scalloped edges. Matures early and the plants will bear freely until killed by frost. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

ESSEX HYBRID. It is a cross between the Hubbard and the American Turban Squashes. Flesh is fine-grained, thick, and solid. Vines are rapid growers and produce freely. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

BOSTON MARROW. A winter Squash, shaped very much like the Hubbard, but rich golden orange in color. Can be used for canning purposes, served as a table vegetable or made into pies. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

WARTED HUBBARD. In size and color this is exactly like the old familiar Hubbard Squash, but heavily warted. Produces a large number of fruits which will keep even to late winter. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

IMPROVED HUBBARD. A selection from the old Hubbard, producing a more vigorous vine and slightly larger fruits. The skin is dark green and the flesh rich golden yellow. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

GOLDEN HUBBARD. Another Squash of the Hubbard family, but with a rich orange-yellow skin that turns to a salmon-red when fully ripe; fully as good as, if not superior to, the original. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

ORANGE MARROW. A selection from the Boston Marrow, but earlier. The skin has the same familiar orange-red color. The flesh is thick, fine-grained and sweet in flavor. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

YELLOW SUMMER CROOKNECK. Fruit long and warded; color golden yellow; fine and tender when young. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

COCOZELLE (Italian Vegetable Marrow). Fruit about 6 to 8 inches long, dark green, yellow, lighter green stripes. Bush form. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.



HUBBARD SQUASH



MAMMOTH SANDWICH ISLAND SALISFY

NEW ZEALAND. An excellent sort for summer use, as the plants will endure heat and dry weather. The leaves are small, but very thick. The plants are strong growers, and from one sowing the crop may be gathered at various times during the summer. Exceptionally valuable variety. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50, 5 lbs. \$7, 10 lbs. \$13.

IMPROVED LARGE ROUND THICK-LEAVED. This is a valuable sort for market-gardeners and is particularly adapted for early spring sowing. The leaves are thick and somewhat crumpled. This variety can be sown in September for late winter and extra-early spring use. Oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts., 5 lbs. \$3.50, 10 lbs. \$6.

BLOOMSDALE SAVOY-LEAVED. The leaves of this Spinach are very similar to those of the Savoy cabbage, and probably the plants are the hardest of any of the Savoy class. It is an exceptionally good sort for autumn planting. The leaves grow upright, are curled and crimped, thick and fleshy. Oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts., 5 lbs. \$3.50, 10 lbs. \$6.

LONG-STANDING. So named because it is extremely slow in running to seed. Large, thick, and crinkled, and especially good in quality. Oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts., 5 lbs. \$3.50, 10 lbs. \$6.

VICTORIA. Another long-standing sort, with foliage of unusually dark green. A good variety for summer use, because it is not susceptible to heat and dry weather. Oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts., 5 lbs. \$3.50, 10 lbs. \$6.

TRIUMPH. Remains in marketable condition much longer than most other varieties. A long-standing variety with dark green, crumpled leaves, which are large, thick, and succulent. Oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts., 5 lbs. \$3.50, 10 lbs. \$6.

SUNFLOWER

This is the large-flowering variety used principally by farmers and poultry breeders. Seed can be sown early in the spring, allowing the plants to stand about 4 feet apart each way. Three pounds of seed will plant an acre. Sunflowers should be grown in good soil where they will get plenty of sun.

MAMMOTH RUSSIAN. Probably the strongest grower of any of the Sunflowers, producing seed-heads of exceptionally large size. Oz. 10 cts., $\frac{1}{4}$ lb. 15 cts., lb. 40 cts.

We would call special attention to our lists of Farm Seeds, including Grasses, Clovers, Alfalfa, Wheat, Oats, etc., which will be found farther on in this catalogue. These are all of the very highest quality, and we heartily recommend them to our farmer friends.

SALSIFY

Salsify is commonly called "Vegetable Oyster" or "Oyster Plant." It is a garden vegetable of extremely easy cultivation. The soil should be spaded to a good depth, because the roots grow straight down and often are 10 to 12 inches in length. The seed should be sown in drills, which are made 15 inches apart, and from $1\frac{1}{2}$ to 2 inches deep. When the little plants get about 4 inches high, thin them out so that they stand about 3 inches apart. The roots may be dug in late fall and stored the same as carrots, or they can be left in the ground until spring, when they will be found very tender. An ounce of seed will sow about 50 feet of drill; ten pounds for an acre.

MAMMOTH SANDWICH ISLAND. The roots of this variety are of enormous size, probably twice as large as those of other sorts. Notwithstanding the large size the roots are of good quality, without hard core. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

SPINACH

Spinach is considered one of the most healthful of all vegetables used as "greens." If plants are wanted for early use in spring the seed should be sown in September, and the little plants protected during the winter with a mulch of hay or straw. For summer and early fall use the seed may be sown in the early part of March, and successive sowings made until about the first of June. Sowing in drills is the usual method, covering the seed about an inch deep and thinning out the plants after two or three leaves have formed. One ounce of seed will sow about 100 feet of drill; fourteen to fifteen pounds for an acre.



IMPROVED LARGE ROUND THICK-LEAVED SPINACH

crumpled leaves, which are large, thick, and succulent.

TOBACCO

Tobacco seed must be sown early in the spring in frames or seedbed in rich soil. Reset the plants in the open ground after the weather has become warm, making space between the rows about 4 feet. The cultivation is practically the same as for corn.

CONNECTICUT SEED LEAF. One of the oldest and best varieties. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

HAVANA. Heavy cropper and one of the earliest. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

TOMATOES

Growing Tomatoes in the Garden. If the gardener wants extra-early plants he must start the seed under glass the latter part of January or early in February. He must also be careful to select the extra-early varieties. There are several simple methods of starting Tomato plants which can be followed out by the owner of even the smallest garden. If you have a greenhouse or a hotbed, the

seed can be sown in flats, and after the plants are 2 to 3 inches high, transfer them into small pots, or dirt bands, allowing them to grow to 5 or 6 inches in height, and then transplant again. If you do not have any of these facilities, the seed can be started in a sunny window in the house, following the same general plan of caring for the little plants. When they are transplanted in the flats for the last time, give them plenty of room, so that when they are finally transplanted to the garden they can be lifted without injuring the roots. In the garden the plants should stand about 4 feet apart each way. During the growing season they should be kept well cultivated; it is likewise a good plan to support the plants by tying them to a stake or permit them to grow over a low frame. An ounce of seed will produce about 2,000 plants; one-quarter pound should give sufficient plants for one acre.

JOHN BAER. One of the earliest and best varieties for the market-gardener. Has a wonderful, glistening, brilliant, bright red color and in shape and form exactly like its photograph, entirely free from core, almost seedless and ripens right up to the stem. Has a mild, deliciously sweet flavor and is an enormous yielder. Our stock of this beautiful and valuable variety comes direct from the originator, which insures its genuineness. No. 1, pkt. 15 cts., $\frac{1}{2}$ oz. 60 cts., oz. \$1, $\frac{1}{4}$ lb. \$3, lb. \$10. No. 2, pkt. 5 cts. $\frac{1}{2}$ oz. 20 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

NORTHERN ADIRONDACK EARLIANA. Has become known the country over as the best extra-early variety, and almost as an entirely new sort, for it is distinctly different from and better than the good old standby, Sparks' Earliana. Line-breeding has developed, in the case of the Northern Adirondack Earliana, a fruit which colors nearly as well, is as smooth and nearly as globe-shaped as Jewel, is earlier and as hard as Bonny Best. Pkt. 10 cts., $\frac{1}{2}$ oz. 40 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2, lb. \$6.

EARLIANA, SPARKS'. This is the original Earliana Tomato. The first crop was grown in New Jersey, and at once came into market favor because of its extreme earliness. The fruits are of good size, bright red, solid, with comparatively few seeds. The plants are compact growers and set the fruit in clusters. Pkt. 5 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2, lb. \$6.

JUNE PINK. The fruit of this Tomato is borne in clusters. The Tomatoes are of medium size, averaging from $2\frac{1}{2}$ to 3 inches in diameter and about $2\frac{1}{2}$ inches in thickness. The color is bright pink, the skin is smooth and the surface of the fruit quite regular. It ripens fully as early as the old strain of Earliana and from ten to fourteen days earlier than the Early Jewel. It is one of the best of the pink Tomatoes. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

BONNY BEST. Another extra-early Tomato which sets its fruit in clusters. The color is glowing scarlet. The valuable peculiarity of the Tomato is the fact that

it does not crack and that it also ripens clear to the stem. It is remarkable for its evenness of size, which characteristic is maintained to the end of the season better than in other varieties. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

CHALK'S EARLY JEWEL. A bright scarlet Tomato that should be planted to market immediately after the Earliana varieties. The flesh is thick and solid, and it is one of the best early sorts for shipping. Plants are strong growers and bear heavy crops. Pkt. 5 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2.25, lb. \$8.

EARLY DETROIT. A new Tomato of merit; fruit smooth, uniform, nearly globe-shaped, firm, and of fine quality; color purplish pink; season early. Is one of the finest shipping varieties grown. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

BEAUTY. This variety came into favor with growers because the fruits were solid and could be shipped a long distance. The fruits are of good shape, produced in clusters, and the plants continue to bear until quite late in the season. Pkt. 5 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2, lb. \$6.

TRUCKERS' FAVORITE. In color the fruit is purplish red. Form is regular, of good size, thick-meated and solid. Vines are strong growers, are not subject to rust nor blight, and will bear continuously until killed by frost. Even the latest fruits are of good size and equal the earliest in quality. A dependable main-crop Tomato. Pkt. 5 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2, lb. \$6.



JOHN BAER TOMATO



LIVINGSTON'S GLOBE TOMATO



BONNY BEST TOMATO

TOMATOES, continued

BEEFSTEAK. Late; purplish pink; vines strong and vigorous; very little seed, large solid fruit. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

MATCHLESS. Solid, bright red, with comparatively few seeds. A strong grower and bears large quantities of fruits. Pkt. 5 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2, lb. \$6.

LIVINGSTON'S GLOBE. Fruits are of large size, perfectly smooth, practically round, but slightly flattened at the stem; has fine flesh, and very few seeds are found, especially in the early fruits. The color is a glossy rose, slightly tinged with purple. One of the largest producers and a good shipper. Pkt. 5c., $\frac{1}{2}$ oz. 35c., oz. 60 cts., $\frac{1}{4}$ lb. \$2.25, lb. \$8.

DWARF CHAMPION. Fruit borne in clusters; color glossy purple; flesh firm and thick. Good for shipping. Pkt. 5 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2, lb. \$7.

STONE. An unusually productive bright red, smooth Tomato. It is a standard sort for canning purposes, and great quantities are grown for this purpose in the big canning sections. It is quite likely that more Tomatoes of this variety are produced than of any half-dozen varieties combined. Pkt. 5 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2.25, lb. \$8.

DWARF STONE. A dwarf, medium early variety. The fruits are of a good, bright red color, smooth, very solid and large. One of the best dwarf varieties. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

BUCKEYE STATE. A dark purple Tomato with smooth skin and solid flesh. Fruits are extra large and are borne in clusters. Unlike many other large varieties, Buckeye State presents an even and smooth surface and seldom cracks when fully ripened. Pkt. 5 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2.25, lb. \$8.

PONDEROSA. An exceedingly large Tomato with a slightly rough surface. Some specimens have been grown that weighed two pounds each. As an extra-choice variety no other sort equals Ponderosa. The fruit is slightly oblong in form, somewhat ridged, is exceptionally solid, with few seeds. The vines grow freely, producing unusually well for so large a variety. Pkt. 5 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2.25, lb. \$8.

YELLOW PONDEROSA. Pkt. 5 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

MAGNUS. Introduced some ten or twelve years ago by an American Tomato specialist. The fruit matures early, is thick, heavy and solid, deep purple in color. It is valuable both as an early Tomato and for general main-crop planting. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

RED ROCK. A quick grower, producing fruit in about a hundred days after sowing the seed. Extra smooth, very large, bright red, exceedingly productive. Splendid for truckers and for canners. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

YELLOW PLUM. Shaped very much like a plum; is particularly valuable for preserving. Color is rich golden yellow. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.



STONE TOMATOES



PURPLE-TOP STRAP-LEAF TURNIP

GREATER BALTIMORE. Very desirable canning variety; smooth, well formed and thick from stem to blossom ends; produces fruits in large clusters. One of the best of the main-crop varieties. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

GOLDEN QUEEN. Also known as Queen of the Yellows. Fruit of fairly large size, smooth, entirely free from ridges. One of the best of the Yellow Tomatoes for table use. The color is very attractive, and it makes a most pleasing dish for the table. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

TURNIPS

For early Turnips sow the seed of the flat varieties in the open ground as early as possible in the spring. Make the drills about a foot apart, and do not sow the seed thickly, as the plants should stand from 3 to 4 inches apart, and much labor will be avoided if you are not obliged to pull them out. Seed may be sown every two weeks until the middle of June so that a succession may be had until fall. The seed for late Turnips—that is, roots for late fall and winter use—should be sown in July and August. An ounce of seed will sow about 100 feet of drill, and from a pound to a pound and a half will be required for an acre.

PURPLE-TOP STRAP-LEAF. A flat variety of fairly large size; a purple ring which runs about one-third of the way down the root, or at least as far down as the root is out of the soil, indicates the variety. The flesh is white, fine-grained and is superior to most other varieties for table use. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

TURNIPS, continued

PURPLE-TOP WHITE GLOBE. The root is nearly round and only slightly flattened at the top. The purplish color extends well down the sides of the root. It is an early-maturing variety, and the roots keep well after being pulled. A good sort for market or for stock-feeding. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

COW HORN. Commonly called the "Long White" Turnip. It is a very rapid grower, a considerable part of the root remaining above the ground. The flesh is white, fine-grained, and of excellent quality for table use. The Cow Horn Turnip is used largely for stock-feeding and for turning under as a fertilizer in connection with crimson clover. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1, 5 lbs. \$4.50.

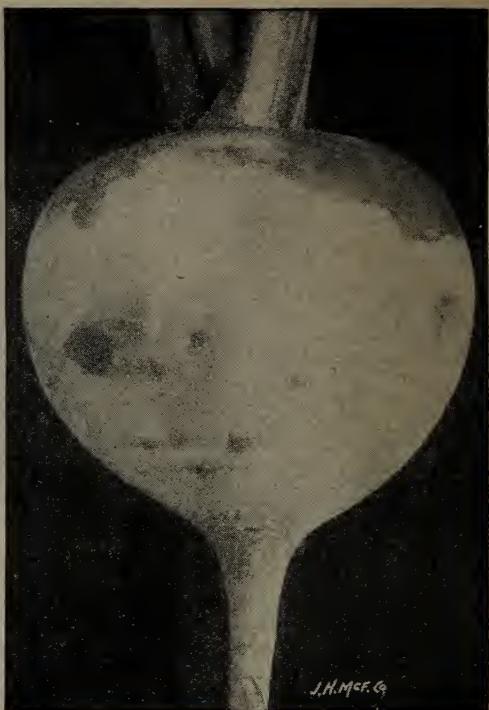
EXTRA-EARLY WHITE MILAN. Probably the earliest of the flat Turnips. Both skin and flesh are pure white; flavor is mild and sweet. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

RUTABAGA, or SWEDE TURNIP

The general cultivation for Rutabagas is the same as for turnips, excepting that for early use the seed should be sown in a prepared seed-bed and the roots transplanted into rows about 2 feet apart and from 8 to 10 inches in the row. For later crop the seed may be sown in the open ground in June and early July. Just before the ground freezes the roots should be dug, the tops cut, and the crop stored in a cold cellar or pit outdoors.

SWEET GERMAN. This variety is very similar to the turnip and is used in many sections for table use as well as for stock-feeding. The flesh is white and solid, and does not have the strong taste of the common turnips. A winter crop can be kept well into the following summer. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

IMPROVED PURPLE-TOP. Frequently called the American Purple-Top and is remarkable for its uniform shape and size. The skin is smooth and almost white, while the flesh is golden yellow. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.



J.H.McG.

PURPLE-TOP WHITE GLOBE TURNIP

HERBS

Most of the herbs are perennials, and will grow in almost any corner of the garden, but are particularly partial to bright sun.

ANISE. Used principally for flavoring and for garnishing. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.75.

BALM. Used for making a medicinal tea. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

SWEET BASIL. A highly aromatic herb whose leaves and tops are used for seasonings and, in a limited way, in salads. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

BORAGE. An annual plant that is used freely by bee-keepers. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.75.

CARAWAY. The seeds of this plant are used for culinary purposes, in confectionery and also in medicines. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

CORIANDER. An annual whose seeds are strongly aromatic. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

DILL. An annual plant, seeds of which are used as a seasoning and also in the preparation of Dill pickles. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

SAGE. An old familiar herb with a pungent odor. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

SWEET FENNEL. The leaves are finely cut and are especially beautiful for garnishing. Pkt. 5c., oz. 20c., $\frac{1}{4}$ lb. 50c., lb. \$1.50.

HOREHOUND. Annual; chiefly used for medicinal purposes, as it has strong tonic properties. Pkt. 5c., oz. 30c., $\frac{1}{4}$ lb. \$1, lb. \$3.

LAVENDER. The flowers are delightfully fragrant, imparting a pleasing odor to the contents of linen-chests. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

SWEET MARJORAM. An annual possessing a pleasing fragrance and of particular value as a seasoning. Pkt. 5 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

RUE. A medicinal plant of extremely pungent taste. Pkt. 5 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

SUMMER SAVORY. Annual, cultivated for the foliage, which is gathered in summer and dried for use in the kitchen during the winter months. Pkt. 5 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

THYME. An old-time garden plant, the leaves and young branches of which are used for seasoning. Pkt. 5 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

CURLED CHERVIL. Leaves of Chervil very much resemble those of parsley and are used in a similar way. The foliage is ready for use in from six to ten weeks after sowing the seed. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

SAFFRON. Cultivated for medicinal purposes, and also for the coloring matter from which comes saffron-yellow dye. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

MINT. Leaves are used in making the familiar Mint sauce that is indispensable to spring lamb and green peas. Pkt. 25 cts.

TANSY. A strongly aromatic plant, with medicinal qualities. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.



SWEET MARJORAM SUMMER SAVORY THYME



EARLY FLAT DUTCH



EARLY JERSEY WAKEFIELD

OUR FROST-PROOF CABBAGE PLANTS

Will Mature Heads Two to Three Weeks Earlier Than Your Home-Grown Plants and Double Your Profits

OUR GUARANTEE.

We will refund the purchase price to any customer who is dissatisfied with results produced when crop is matured. A person wanting extra early Cabbage for home use or market CAN'T AFFORD NOT TO USE THESE PLANTS.

There are a number of islands along the seacoast of South Carolina where the soil and climatic conditions are just suited for growing tough, hardy Cabbage plants during the winter and early spring. The seed is planted in the open field during the months of October, November, December, January, and February. The plants make a slow but steady growth, until at eight to ten weeks of age they are very tough and hardy, the buds are purple and the outer leaves a reddish brown. When in this condition they can be shipped to territory farther north and be planted in the open ground a month to six weeks sooner than the home-grown hotbed or coldframe plants. These Frost-Proof Cabbage Plants will stand a temperature of 20 degrees above zero without injury, the land freezing, or the plants being covered with ice, sleet or snow after they are planted will not injure them.

The top of the plant does not grow until your regular spring weather opens up, but the roots grow from the time they are planted, and just as soon as spring weather starts, the estab-

lished root-growth assimilates the fertilizer in the soil, the plants grow very fast, maturing headed Cabbage two to three weeks sooner than you can mature them from hotbed and coldframe plants.

You know what the difference in profit will be if your crop is matured and marketed before the general crop from home-grown plants is matured, but to get this advantage these frost-proof cabbage plants must be planted a month or six weeks earlier than you would plant home-grown plants from hotbeds or coldframes.

Our Cabbage plants are grown from the best Long Island grown seed and are shipped direct from our growing station in South Carolina by parcel post or express. We can fill orders from December 1 to May 15.

The plants when received will be somewhat wilted and have a hard, stunted appearance, which will be disappointing to persons who have never used these plants before. Regardless of appearance, they will produce the crop results.

VARIETIES: EARLY JERSEY WAKEFIELD, CHARLESTON LARGE TYPE WAKEFIELD, SUCCESSION, and EARLY FLAT DUTCH

Prices of Cabbage plants by parcel post, postage prepaid: 100 to 400 at 50 cts. per 100, 500 for \$1.75, 1,000 or more at \$3 per 1,000. Prices by express, buyer paying charges. 1,000 to 4,000 at \$2.25 per 1,000; 5,000 to 9,000 at \$2.10 per 1,000; 10,000 or more at \$2, per 1,000. Plants are packed for parcel post shipment, 100, 200, 300, 400, 500, and 1,000 plants to package; for express shipment, 1,000 or 2,000 plants to a package. Order in these quantities. We pack only one variety to a package. We Guarantee delivery in good order on parcel post shipments. We Do Not Guarantee delivery on shipments by express; they are at purchaser's risk.

Plants cannot be pulled when land is frozen or when plant-beds are wet from rain. Shipments are sometimes delayed for these causes. Orders will always be shipped as promptly as weather conditions at our growing station permit. As these plants are mailed or expressed direct from the growing-fields, orders should be placed early and the approximate date of shipment desired should be specified.

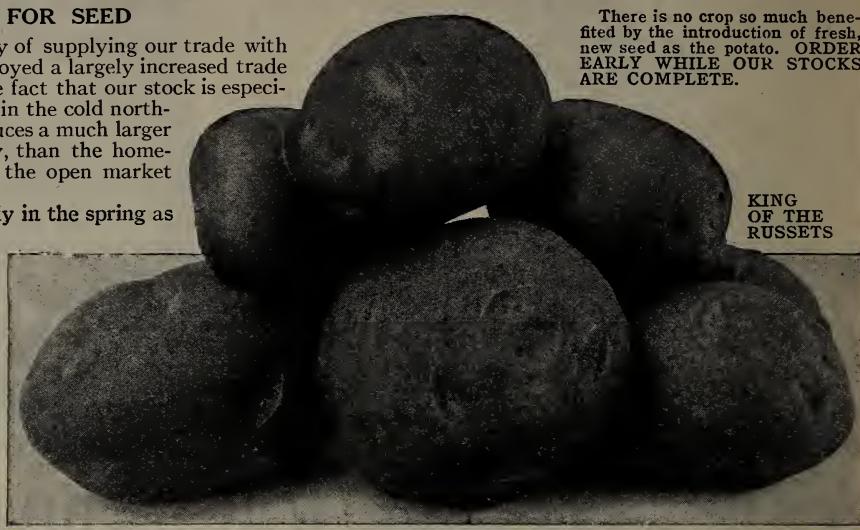
NORTHERN-GROWN SEED POTATOES

GROWN ESPECIALLY FOR SEED

For many years we have made a specialty of supplying our trade with northern-grown seed Potatoes, and have enjoyed a largely increased trade from year to year. This we attribute to the fact that our stock is especially grown for seed, by experienced growers in the cold northeast and being pure and true to name, produces a much larger yield, and Potatoes of a much finer quality, than the home-grown and western stocks usually sold in the open market for seed purposes.

We begin shipping Seed Potatoes as early in the spring as weather conditions will permit, usually the latter part of March. However, we urge our customers to place their orders early, while our stock of all varieties is complete, as it frequently happens that we are unable to supply certain varieties late in the season. Owing to the perishable nature of Seed Potatoes the market is subject to radical changes, and it is impossible for us to guarantee prices; therefore, the prices given here are subject to change. Special prices will be quoted on five-barrel lots and upward on request. Each barrel contains 165 lbs. of full-sized tubers. Prices, f. o. b. Pittsburgh.

There is no crop so much benefited by the introduction of fresh, new seed as the potato. ORDER EARLY WHILE OUR STOCKS ARE COMPLETE.



KING
OF THE
RUSSETS

King of the Russets. A New Late Potato. This Potato is destined to be one of the leading main-crop varieties in that it is an exceptionally heavy yielder, table quality of the very best, and with smooth, velvety, russet skin and shallow eyes. No Potato can surpass it in uniform and handsome appearance. It is very fine-grained, cooks as white as flour, and is of splendid flavor; an excellent keeper and retains its good eating qualities until late in the spring. It is one of the hardiest varieties known and it is not susceptible to rot, scab, or disease; in fact it can be grown on the most heavily manured land without danger of rot. Its great productiveness, handsome color and resistance to diseases make it a very popular Potato and one especially suited to our locality. Pk. \$1, bus. \$3.50, bbl. \$9.

EARLY VARIETIES

EARLY BOVEE. A very early and popular Potato of the Rose class. Produces a large quantity of tubers, uniform in size, and of excellent quality. Pk. \$1, bus. \$3.50, bbl. \$9.50.

EARLY SIX WEEKS. A very early Potato, somewhat resembling the Early Ohio. Pk. \$1, bus. \$3.50, bbl. \$9.50.

EARLY ROSE. This is genuine stock of the old standard Early Rose Potato. Although one of the oldest varieties, it still retains its popularity. Pk. \$1, bus. \$3.50, bbl. \$9.50.

EARLY OHIO. A sort that is well known by market-gardeners who are after a first-early Potato for home trade; the tubers are almost round, with pink skin and of excellent quality. Pk. \$1, bus. \$3.50, bbl. \$9.50.

EARLY VARIETIES, continued

IRISH COBBLER. An extra-early, round, white Potato. Vines yield heavily and the tubers are of extremely fine quality. Pk. \$1, bus. \$3.50, bbl. \$9.50.

LATE VARIETIES

CARMAN No. 3. Extra large, oblong, slightly flat, white. Vines are extra-good growers and yield an immense quantity of tubers of uniform size. One of the best late varieties; of excellent quality; good keeper. Pk. \$1, bus. \$3.50, bbl. \$8.75.

GOLD COIN. A medium-late variety with a thin, smooth skin of a light golden tint. Slightly oblong in shape, rather broad, and quite thick. Its vigorous growth, great productiveness, and excellent table quality have made it a popular variety. Pk. \$1, bus. \$3.50, bbl. \$8.75.

SIR WALTER RALEIGH. The tubers vary from round to oblong in shape; uniformly of good size, white-skinned and of excellent quality. A good keeper, and, like Carman No. 3, a very heavy yielder. Pk. \$1, bus. \$3.50, bbl. \$8.75.

RURAL NEW YORKER No. 2. Very popular, handsome and a heavy yielder. Pk. \$1, bus. \$3.50, bbl. \$8.75.

GREEN MOUNTAIN. A medium to late Potato in point of ripening, with branching, light green foliage. Skin white and thin; flesh white. Tubers flattened to oblong in shape; extremely productive and, when thoroughly ripened, of most excellent quality. Pk. \$1, bus. \$3.50, bbl. \$8.75.

We recommend Prolific Crop Producer and Columbian Corn and Potato as excellent potato fertilizers. See page 53 for prices. If you are interested in Potato machinery, write for special catalogues giving detailed descriptions of Potato Planters, Potato Diggers, and Potato Cutters.



GREEN MOUNTAIN POTATO

FIELD SEEDS AND GRAINS

THIS DEPARTMENT OF OUR BUSINESS HAS ALWAYS RECEIVED SPECIAL ATTENTION

The Grains and Grass Seeds we offer are selected with special reference to their purity and germination, and great care is used to have them free from noxious foreign seeds.

The Pennsylvania Pure Seed Law, which went into effect January 1, 1914, contains the following provisions: "That no seeds offered for sale shall contain dodder or Canada thistle in excess of one seed in 3,000."

It also provides that Red Clover, Crimson Clover, Alfalfa, Timothy, Barley, Speltz, Wheat, Buckwheat, Oats and Rye shall be 97 per cent pure; Alsike Clover, Perennial Rye Grass, German and Hungarian Millet 95 per cent; White Clover 90 per cent; Red-Top, solid seed, 85 per cent; Blue Grass, Orchard Grass and Unhulled Red-Top 75 per cent.

Every dealer in seeds who is desirous of giving the farmer a square deal is pleased to see such a law enacted, and the farmer, in buying his seeds, should ask for the percentage of purity.

While we handle more than one grade of some varieties of seeds, our lowest grade will always be found to more than meet the requirements of this law. However, we always advise our customers to purchase our highest or "Special" grades, which are the cheapest in the end.

Our Special Seed Price-List

Owing to the frequent changes in the market prices of Field Seeds and Grains, in justice to our customers, as well as ourselves, we cannot name prices in this catalogue. We, however, issue a Special Seed Price-List covering all our Field Seeds and Grains, which is corrected as market changes occur. A postal card will bring this price-list, also samples when requested.

TIMOTHY

A description of this old familiar hay-making grass is unnecessary here. It is recognized by almost everyone wherever found, and is probably the most extensively grown of all the grasses. It may be sown alone or with Red or Alsike Clover, or with other grasses. From twelve to fifteen pounds of seed are usually sown to the acre. While we handle three grades of Timothy, the lowest of which runs over 98 per cent pure, we recommend our highest or "Special" grade; which, during the past season, averaged 99.8 per cent pure, never running below 99.6 per cent pure.

CLOVERS

MEDIUM RED. More widely known than any other variety of Clover. Makes a standard Clover for hay purposes, as it can be cut at least twice in the season. Plants grow about 2 feet in height. Sow the seed in the early spring or late summer at the rate of fifteen to twenty pounds to an acre. If used with other seeds, ten pounds to an acre will be sufficient.

MAMMOTH RED. Sometimes called Sapling or English Clover. It is much ranker than the Medium Clover, and yields a much larger crop per acre. It does well on poor soil, is hardy, and usually will stay in the ground longer than Medium Clover. Seed cannot be distinguished from that of Medium Red by its appearance.

ALFALFA. One of the most nutritious plants grown; valuable as a dried hay or for pasture. With proper cultivation it can be grown on some part of almost any farm in Pennsylvania or adjoining states. Two or three cuttings can be made in a season, producing from three to five tons of hay per acre. Ton for ton its feed value equals that of wheat bran. From twenty to twenty-five pounds of seed are usually sown to the acre. Some farmers sow thirty pounds to the acre. We sell but one grade of Alfalfa seed, the very best northwestern American-grown.

ALSIKE. One of the best for sowing with Timothy. The seed may be planted in spring, late summer or early autumn, and as the plants are perfectly hardy, the field seldom requires re-seeding. The flowers resemble White Clover, but have a red tinge on the edge of the petals and are considerably larger. Thrives better on thin soils than Red Clover.

WHITE. White Clover is specially valuable for lawn planting and is likewise good for pasturage. When sown with Lawn Grass it helps to make a permanent turf; in the pasture it is not quickly destroyed by hoofs of cattle and horses. Seed can be sown any time during the summer, although best results are obtained from early spring sowing. It is perfectly hardy and very thrifty. Use from ten to twelve pounds to the acre if sown alone; about five pounds to the acre if sown on old sod or with other Clover.

CLOVERS, continued

CRIMSON. This Clover is used principally for turning under as a green fertilizer, or for sowing with corn for a winter cover-crop. If desired for feed, the plants should be cut just before they come into bloom. Seed may be sown any time after the first of April at the rate of twenty pounds to the acre. Plants are strictly annual, therefore, the field must be re-seeded every year. Thrives on poor land and increases fertility of the soil.

SWEET. Also known as Bokhara or Melilotus. This is a legume whose value as a soil improver is just beginning to be appreciated. It is also used for forage, but on account of its taste, the cattle take to it very slowly. It can be grown on soil that is too poor to grow other legumes, and it is claimed the bacteria on its roots will inoculate Alfalfa. It may be sown either in the spring or fall. Although a great number of different species are grown in the Old World, the three principal varieties used in this country are the white biennial (*Melilotus alba*), the large yellow biennial (*Melilotus officinalis*) and the small yellow annual (*Melilotus Indica*). The latter variety is often substituted for the large yellow biennial, and is considered of very little value. We can furnish seed of the first two varieties.

GRASS SEEDS

BLUE GRASS. Kentucky Blue Grass is most valuable for pastures and lawn planting. For lawns it is indispensable and, when well established, the lawn will last for years, as the Grass makes an extra-close fine-textured turf. The seed should be mixed with other Grasses that mature earlier, for Blue Grass is very slow in both germinating and maturing.

ORCHARD GRASS. A quick-maturing Grass that is used for pasture and hay. It may be cut several times during the year, but it is advisable to use the machine before the plants show the seed-heads. From thirty to thirty-five pounds will be required for an acre.

RED-TOP. A valuable Grass for hay, pasture or lawn. It will grow on any soil that is not extremely dry. With the possible exception of Kentucky Blue Grass, it surpasses all other Grasses for lawn-making, and is an extra-good variety for golf-grounds and other places where the turf must withstand hard usage. About fifteen to twenty pounds of seed will be required for an acre. We handle nothing but the solid seed, having discarded the unhulled and chaff grades.

HARD FESCUE. Grows well in dry, sandy soils, and is especially good for pasturage and haying; stands extremes of cold and heat. About thirty pounds will be required for an acre.

RED FESCUE. This is commonly called Creeping Fescue. It is largely used in sandy soils, but will grow well on even the poorest land. It is good for hillsides, embankments and shady places. About thirty-five pounds will be required for an acre.

GRASS SEEDS, continued

VARIOUS-LEAVED FESCUE. A good variety to grow in orchards, as the plants thrive best in shady, moist situations. The plants are from 2 to 3 feet high and quite hardy. About forty pounds of seed will be required for an acre.

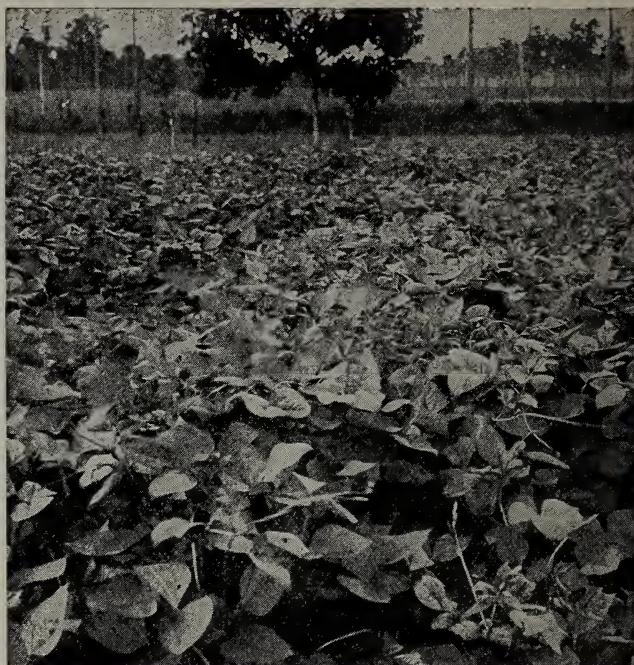
WOOD MEADOW GRASS. Will grow in shady places where practically no other Grass will succeed, and therefore is particularly desirable for shaded lawns. It is also desirable for mixing with golf-link Grasses, as it makes a compact turf. About thirty-five pounds of seed for an acre.

SHEEP'S FESCUE. A Grass that will grow on poor soil where most other sorts would die from lack of nourishment. It always stands severe droughts and long, cold winters. It makes excellent pasture Grass, and can also be used for the lawn when combined with other Grasses. About forty pounds will be required for an acre.

CRESTED DOG'S-TAIL. A low-growing Grass that makes extra-dense turf in rich, moist soils; is also desirable for putting-greens and lawns. Will grow equally well in the shade or the sun. About seventy pounds of seed will be required for an acre.

RHODE ISLAND BENT. A superior Grass for putting-greens on account of its dwarf growth and its narrow leaves. It will grow and make good turf in good or bad soils, and dry weather or heavy rains seem to have no serious effects. About forty pounds of seed are required for an acre.

PERENNIAL or ENGLISH RYE GRASS. Where a rapid growth is desired, this is the Grass to sow, as it will make a reasonably good showing when three or four weeks old. It is extensively used in lawn seed mixtures. About seventy pounds of seed will be required for an acre.



COWPEAS

MISCELLANEOUS FARM SEEDS

COWPEAS. One of the best soil-enrichers, taking the nitrogen from the air and storing it in the soil; valuable also for hay, forage, ensilage or turning under. Will grow on poor land and even though the crop is taken off the soil is enriched and following crops do better. All things considered, there is probably no surer or cheaper method of bringing up poor soils than by a liberal sowing of Cowpeas. They should be sown in this latitude in

May or June, using, when sown broadcast, one and one-half to two bushels to the acre. Many different varieties are grown in the United States, but those most suitable for sowing in the North are the following:

Whippoorwill. This is the most popular variety in the North; ripens early and is very productive.

New Era. An extra-early variety, maturing in about sixty days.

Mixed Varieties. This mixture consists of a half-dozen or more of the leading varieties, and is usually sown for hay, pasture, or turning under. They are almost sure to make a heavy growth.

CANADA FIELD PEAS. A crop of great value and increasing in popularity every year. Used for hay and pasture as well as soil-improvement. Canada Field Peas should be sown as early as possible in the spring, either alone or with oats. When sown broadcast alone, at least two bushels of seed to the acre should be used, or with oats, one and one-half bushels of Peas and one bushel of oats.

SOY BEANS. Sometimes called Soja Beans. Another valuable plant for bringing nitrogen into the soil. It is also excellent for green or dried fodder, and the seed is very rich in protein, making an excellent dairy feed when balanced with other grains. Seed should be sown during the months of May or June, using at least one bushel to the acre, when sown broadcast, or when sown in drills, $2\frac{1}{2}$ feet apart, about three pecks to the acre. We handle three varieties—**Mammoth Yellow**, **Medium Green**, and **Wilson**. The Medium Green and Wilson mature earlier than the Mammoth Yellow, but are smaller in growth. The Mammoth Yellow requires about 120 days to mature, the Wilson and Medium Green about twenty days less.

DWARF ESSEX RAPE. Especially valuable for feeding sheep, hogs and cattle. Claimed to have a feed value greater than clover. Always used as a pasture and not for hay. Its growth is similar to turnip-tops, but heavier and taller. If seed is sown in May the field should be ready for pasture in July. However, seed may be sown either in early spring, summer or fall. If sown in drills, about five pounds of seed will be required for an acre; if sown broadcast, ten pounds to the acre.



HAIRY VETCH

MISCELLANEOUS FARM SEEDS, continued

WINTER or HAIRY VETCH. One of the best legumes, whether used for a hay crop, pasture, soil-improvement or cover crop. Thrives on light soils and is very hardy, remaining green throughout the winter. May be sown in the spring or fall, using from sixty to seventy pounds of seed to the acre when sown alone. It is better, however, to furnish a support for the Vetch by sowing rye, barley or oats with it at the rate of one-half bushel of grain and fifty pounds of Vetch to the acre.

SPRING VETCH. The seed of the Spring Vetch is larger than that of the Hairy Vetch, but the plant is not so hardy and will not produce so large a growth. It is usually sown in the spring for a hay crop or plowing under.

MILLET. A medium-early forage plant which will grow in almost any climate or soil and produces heavy yields of fodder. The crop should be cut while the plants are in bloom, or at least before the seed forms. Seed may be sown during the month of May or the early part of June at the rate of from thirty to forty pounds to the acre. We handle four varieties of Millet—Western sometimes known as Common Millet; Tennessee, or Golden; Hungarian and Japanese.

SORGHUM, or AMBER CANE. Used principally as a summer fodder for cattle. Plants will grow rapidly and at least two crops can be cut each season. If carefully cured it will make an excellent dry fodder. The seed may be sown in drills about 30 inches apart, at the rate of five to six pounds of seed for an acre. If sown broadcast, from seventy-five to one hundred pounds of seed is generally used. Set the drills so that the seed will be sown thickly, but not heavily covered.

SUDAN GRASS. This was introduced into the United States in 1909 from Africa. It is thought to be the wild original form of our cultivated sorghum. It is strictly an annual and dies each year like Millet. Since its introduction into this country, it has been grown extensively in the dry regions of the West and Southwest, producing immense quantities of both seed and hay. It grows from 5 to 9 feet high, has great drought-resisting qualities, and is recommended as a substitute for millet, for a catch crop. Once started, it will grow vigorously without rain. To secure best results, it should be planted in rows wide enough to permit of cultivation. If sown in rows,

SUDAN GRASS, continued

4 to 6 pounds of seed per acre is recommended or broadcast 16 to 24 pounds per acre.

KAFFIR CORN. Used principally as a green fodder, also for seed, which is largely used as a poultry-feed. Will grow in any place where the sorghum thrives. For fodder sow one bushel to the acre; for seed, sow eight to ten pounds to the acre, in rows 3 feet apart.

BARLEY. A well-known, quick-growing cereal. We have the Beardless variety and the Wisconsin Six-Row. The Beardless is generally considered earlier and more hardy than the bearded varieties.

WINTER WHEAT. We can supply the leading sorts of Winter Wheat. Our stock usually consists of Leaps Prolific, Red Wave, Harvest King, and other popular varieties. Write us for samples and prices before seeding time.

SPRING WHEAT. If your Winter Wheat happens to be killed by extreme cold weather, you can still secure a crop by sowing Spring Wheat in early spring. We furnish Fife, Blue-Stem, or Marquis.

WINTER RYE. Usually sown as a cover-crop, getting the seed into the ground before the middle of November. About one and one-half bushels of seed will be required for an acre.

SPRING RYE. Matures early in the season and makes an excellent green food when cut, or will supply pasturage for several weeks. Spring Rye is quite distinct from the winter sorts, as the seeds are much smaller.

BUCKWHEAT. Japanese and Silver Hull are the two leading varieties. The Silver Hull produces whiter flour, but the Japanese is more productive. The Silver Hull grows particularly well on poor soil and matures a little later than the Japanese. Seed required, one to one and one-half bushels to the acre.

SPELTZ. Resembles wheat but the grain is much larger. Very productive and makes a fine feed for stock whether it is cut green or allowed to ripen and the grain ground. The grain is particularly good for hog- and poultry-feed.

BROOM CORN (Evergreen.) On account of the green appearance when ripe, also its earliness, this variety is generally used by growers of Broom Corn.

OATS

BIG YIELDER. This variety has been making 70 to 80 bushels to the acre on the same soil and under the same conditions that produced 40 bushels from the old varieties. It has outyielded every other variety tested with it—for it is bred to yield and it certainly does it. With the yield you also get quality; it is an unusually heavy-bodied Oats—big, plump, meaty grains, with very little chaff. It is a spreading or tree Oats, and the straw is very strong, practically lode-proof, and averages 4 to 5 feet in height. A measured bushel will weigh from 42 to 45 pounds. Sow 2½ bushels to the acre.

STORM KING. A side Oats that has been grown successfully for some years. It derives its name, Storm King, from the strength of the straw, which often measures from 4½ to 5½ feet in height. It will stand the most severe winds without lodging. The heads are very long, containing an unusually large number of grains, its average yield running from 70 bushels to 100 bushels to the acre. The seed we offer is grown by the originator of this valuable Oats, and is therefore pure-bred, true to name. It costs more; it's worth more. There is no other side Oats equal to Storm King.

NEW MICHIGAN. This is a tree Oats that grows an ordinary size straw which is very stiff, enabling it to stand up well. Yielding qualities are exceptional as it has proven one of the best producing varieties in the state of Michigan.

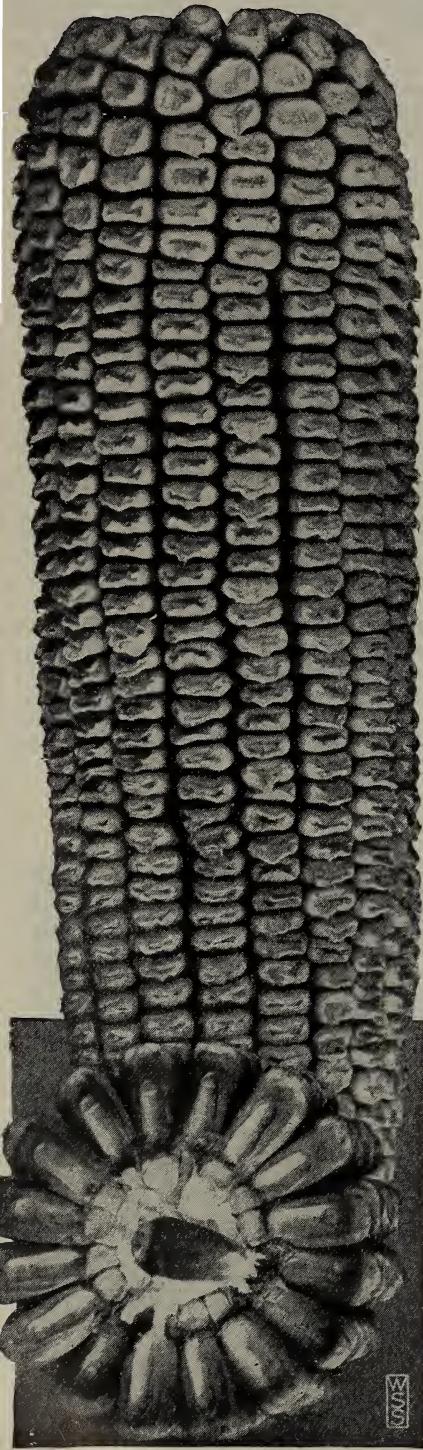
BIG FOUR. Another tree Oats adaptable to almost all soils; very hardy; withstands adverse weather conditions and does not lodge easily. It is an extra-good yielder, white in color, of good size, and for a number of years led all others in production at the Wooster, Ohio, Experiment Station.



STORM KING OATS

FIELD CORN

We have always made a specialty of Seed Corn, supplying our trade with only those varieties that experience has proved are most suitable for the climate of Pennsylvania, Ohio, and West Virginia. Our Seed Corn is carefully hand-picked and tipped and butted before it is shelled. We aim to have every variety true to name and of high germination.



SURE-CROP NINETY-DAY CORN

BIG YELLOW DENT. The ears are immense—12 to 14 inches long, with 20 to 24 rows of long, large grains. It is, without question, one of the most valuable Yellow Dent Corns ever produced because of its immense yield—at least 25 per cent, and often 50 per cent, more bushels to the acre than any of the average yields of other varieties. Stalks grow from 12 to 15 feet high, giving an immense quantity of fodder as they are heavily covered with big, broad leaves. If you want the biggest and best crop in the neighborhood, then sow Big Yellow Dent. Plant it in May and it will mature in September.

SURE-CROP NINETY-DAY The tremendous quantity of shell Corn this variety produces to the acre surprises everyone who grows it. Generally there are two good ears to a stalk. The grain is very long, longer than any other, and the cob very thin. Sure-Crop has a rich, deep yellow grain, making it much desired by millers. The fodder grows from 8 to 10 feet high. It is positively an early Corn, and you are always sure of a crop in the shortest season.

PRIDE OF THE NORTH. A Yellow Dent variety, maturing in 90 days. Ears 8 to 10 inches long, sixteen rows on the ear, cob small, grain above medium size and closely set. One of the hardiest, and especially adapted to the northern planter; will mature farther north than any other Dent Corn.

IMPROVED LEAMING. A medium-early variety, maturing from ten days to two weeks later than Pride of the North. Especially desirable for fodder. Ears are long, with small, red cob; grains square and deep. One of the most popular varieties.

WHITE-CAP YELLOW DENT. An early sort which grows well on light soil; grain is yellow with white tip. Nearly as early as Pride of the North, maturing in from 90 to 95 days. Ears from 8 to 10 inches long, well filled, with sixteen or eighteen rows.

REID'S YELLOW DENT. This variety has won many prizes in Corn shows in various parts of the country. It originated in Illinois and soon became extremely popular. The cob is medium large, with good-sized, deep grain. Matures in from 100 to 110 days.

BLOODY BUTCHER. A deep cherry-red Corn with white cap, maturing in about 90 days. Has long, slender ears, generally fourteen rows and a small cob.

IOWA SILVER MINE. One of the most popular of the white varieties. Ripens medium-early, maturing in about 100 days. Produces extra-long ears, with from fourteen to eighteen rows, of pure white kernels solidly set on the ear. A good variety for climates where droughts are frequent.

ENSILAGE CORN

EUREKA. (Virginia-grown.) The Eureka is a Virginia-bred Corn and originated about twenty years ago on the rich bottom of the James River Valley where it grows to perfection, often attaining a height of 16 to 18 feet. It is a vigorous grower, large stalks, with unusually heavy foliage, and produces from one to three ears to the stalk, according to the land. The ears average about 11 inches in length. Will produce more tons of ensilage to the acre than any other variety.

BLUE MOUNTAIN. This Corn is grown at a high altitude in the Blue Ridge Mountains in Virginia, and makes an ideal Ensilage Corn. Grows to a mammoth size, full of leaves, and has a big ear. On account of its being grown at a high altitude in the mountains, it is earlier than the ordinary southern-grown Ensilage Corn and will be ready for the silos before frost comes. It is a vigorous-growing Corn, often knee-high after 30 days from planting, and grows 14 to 16 feet high. Our seed is selected in the fall, properly taken care of, and always shows nearly a perfect germination test.

VIRGINIA GOLDEN DENT. A new variety of Ensilage Corn grown in Virginia and becoming very popular in the northern states. Although not quite so large as the Eureka, it matures about three weeks earlier, and consequently makes better ensilage in the North, especially in late seasons. We can highly recommend it to those who are partial to a yellow Corn and want a variety that is earlier than Eureka.

VIRGINIA HORSE-TOOTH. The popular fodder Corn of the southern states; from 12 to 14 feet high, and stiff enough to stand up during severe storms. The seed is white, broad, and deep, with white cob.

RED-COB. A tall-growing plant, with a great quantity of side leaves, making it very desirable for ensilage. A favorite with a great many growers. The grain is narrow and clear white.

"A Good Start" is half the battle in raising a corn crop. A liberal application of a good "2-8-3" such as Columbian Corn and Potato Fertilizer will pay for its cost several times over at harvest time. See page 53.



The Beeman Tractor operates a triple lawn mower and cuts a 7-foot swath See page 76

Mixed Lawn Grass Seed

This is an extra-fine mixture of recleaned Grass Seed of the varieties that are best adapted to general lawn sowing. In making up this mixture it was our aim to make a formula that would produce a durable and lasting lawn, withstanding the extreme heat of the summer, the cold and frost of winter, as well as periods of drought and moisture that mark our Pennsylvania climate. We believe that the testimony of our customers will prove that we have succeeded in our efforts, and a lawn that is sown with our Lawn Grass Mixture will show a rich, velvety appearance in five to six weeks after sowing. The mixture is absolutely pure and contains no chaff or "filler" of any kind. A measured bushel will weigh about twenty-seven pounds, and about 75 lbs. will be required to seed an acre of lawn. About ten pounds will be required for an average city lot, measuring 30 by 100 feet; this will give a good liberal seeding. Less than 10 lbs., 35 cts. per lb.; 10 lbs., \$3; 25 lbs. and over, 28 cts. per lb. If wanted by mail, add postage at your zone rate, according to the table on inside of front cover. Special prices will be quoted on large quantities.

SHADY LAWN MIXTURE

This mixture is made from Grasses which will thrive under the shade of trees and buildings, where comparatively little sun reaches the ground, and in places where ordinary Grasses will not succeed. The quantity of seed required for sowing is practically the same as for our Lawn Grass Mixture. Less than 10 lbs., 45 cts. per lb.; 10 lbs. and over, 40 cts. per lb. If wanted by mail, add postage at your zone rate, according to the table on inside of front cover.

PUTTING-GREEN MIXTURE

Our Putting-Green Mixture is made from selected stocks of those European and American Grasses which have proved the best for the purpose. As we import large quantities of Grasses, we are well equipped for preparing special Golf-Course Mixtures. Less than 10 lbs., 45 cts. per lb.; 10 lbs. and over, 40 cts. per lb. If wanted by mail, add postage at your zone rate, according to the table on inside of front cover.

**IN BUYING SEEDS IT IS ALWAYS ECONOMY TO BUY THE VERY BEST. IT HAS ALWAYS BEEN OUR AIM
TO FURNISH HIGH-QUALITY SEEDS RATHER THAN TO SELL AT LOW PRICES**

FLOWER SEED DEPARTMENT

We have given a little more than our usual attention to the Flower Seed Department, and for the season of 1918 have made some radical changes in the list. Practically all of the varieties listed here are "Annuals," that is, plants which grow, produce flowers, mature the seed, and die the same year. We believe this class of plants to be more satisfactory, in general, to the average gardener. If one desires perennials, or those plants which live from year to year, we would suggest that the plants themselves be purchased, although a great deal of the pleasure in gardening will be lost if you do not raise the plants from the seed.

ASTERS

No garden can be considered even half-way complete without a good display of Asters. If the gardener cares to go into growing different varieties, he will be able to have flowers early in July, and a succession of blooms will come in August and even to the latter part of October, unless the plants are killed by frost. One would hardly think the magnificent chrysanthemum specimens of the present day can trace their ancestors back to the little China Aster that grew in our grandmother's garden. One who is interested in the history of the development of the Aster will find it a most interesting study.

Asters will grow in almost any reasonably good soil; the bed should be prepared in about the same way as for vegetable crops, but if you give special attention to fertilizing and cultivating the Asters, you will be amply repaid by fine plants, and long stems which will support the enormous blooms. The plants delight in an open, sunny situation. It is advisable to change the location each season in garden culture, for the plants are not altogether successful if set in the same ground two or three years in succession. For early plants and blooms seeds may be started in a coldframe or hotbed, or even in a small window-box in the house, and the little plants may be set into the open ground just as soon as danger of late spring frost is over. For the late flowers you will be just as successful if you sow the seed in the open ground in the early part of May. When plants are 2 or 3 inches high, set them where they are to bloom. If a mass of color is desired, the plants may be set from 9 to 12 inches apart; but if you want extra-long stems for cutting it is advisable to set the plants not less than 12 inches apart, in rows that are at least 2 feet apart.

Asters have some insect enemies, particularly the aphis, which attacks the root, and stem-rot, which causes the stem to decay just at the surface of the ground. If the soil has been well fertilized, and the plants kept growing rapidly, you will have comparatively little trouble from either of these pests. Should they occur, sprinkling wood-ashes or air-slaked lime over the entire surface of the bed will help to eliminate the trouble. The Aster beetle is a small black insect which attacks the flowers; it can best be destroyed by hand-picking or knocking into a mixture of kerosene oil and water.

Simple's Branching. Extra-fine late Aster. The flowers are borne on long, stiff stems which often measure 2 feet or more in length. The flowers are extra large, with heavy, incurved petals. Our seed is from a selected strain of these famous Branching Asters and we can recommend it as being the very finest seed that can be secured. Our collection includes the following colors and mixtures:

Simple's Branching, White. The flowers are pure white. Pkt. 10 cts., $\frac{1}{2}$ oz. \$1. oz. \$1.75.

Simple's Branching, Blue. A rich shade of dark blue. Pkt. 10 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.25.

Simple's Branching, Rose. An extremely delicate shade of light rose. Pkt. 10 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.25.

Simple's Branching, Crimson. A deep, glistening crimson. Pkt. 10 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.25.

Simple's Branching, Mixed. All the above colors. Pkt. 10 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.25.

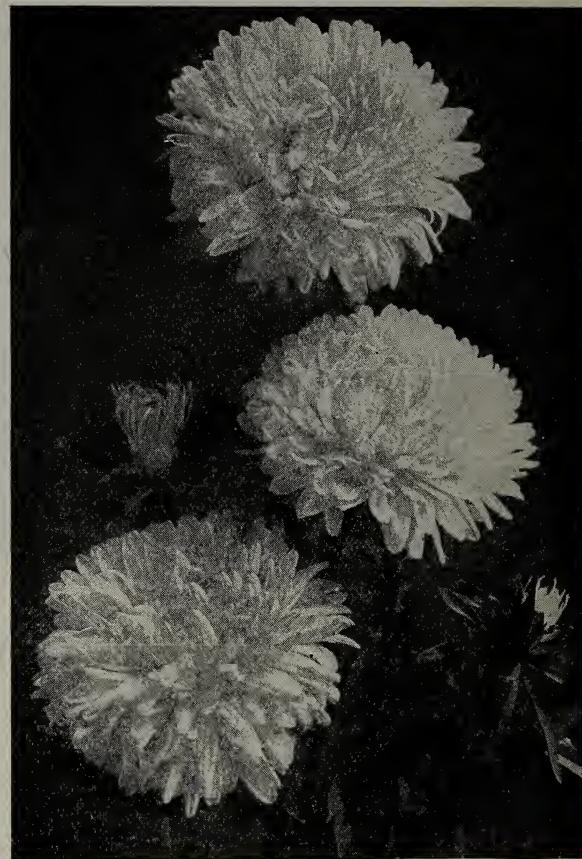
Queen of the Market. Mixed colors. Pkt. 10 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.25.

AGERATUM

A low-growing plant, mostly used for edging of beds or for mass planting. For early flowers sow the seed under cover from March until May; for later blooms sow the seed out-of-doors in May or early June.

Blue Perfection. An unusually deep blue flower, really remarkable in its coloring. The heads are quite large and freely produced. The plants grow about 15 inches high. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

Dwarf Blue. A low-growing plant, seldom over 10 inches. Flowers are deep blue. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.



SEMPLÉ'S BRANCHING ASTERS

ALYSSUM

A popular flower for the edges of beds or planting in vases and rockeries. The plants will remain in bloom practically the whole season.

Sweet (Benthami). The popular old-fashioned variety. Flowers pure white. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

Benthami compactum. Known as the "Little Gem" Alyssum. The plants are dwarf, not over 6 inches in height, and most compact in habit. The flowers are pure white, extremely fragrant and borne in great profusion throughout the entire season. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

For the best success in growing flowers the first essential is high-quality seeds, and then good soil. We can supply the seeds, and you can make the soil just as rich as necessary by using the proper kind of fertilizer. Pages 50 and 53 will give you complete information on this point.



DOUBLE BALSAM

AMARANTUS

These plants are extremely striking on account of the markings of the foliage. Both plants and leaves will grow to a large size in rich soil, but the color will not be quite so bright as in poorer soil. Seed can be sown in the house or hotbed in early spring, or in the seed-bed in the garden later on and the plants transplanted where they are to stand during the season. This is a valuable plant for bedding and producing decorative effects in the garden.

Tricolor. The common name is "Joseph's Coat." The foliage is brilliantly marked with green, red and yellow. Excellent for producing contrast with green-foliage plants. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

BALLOON VINE

Rapid-growing annual climber. Often called "Love-in-a-Puff." The flowers are quite small, pure white and are well filled with curiously-formed seed-pods. The plants are sometimes grown in pots for verandas and ornaments. It is a valuable climber for porches where dense shade is not desirable; very unique and interesting. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

BALSAM

Everyone knows this plant by the old familiar name of "Lady's Slipper." Seed may be sown in the house or in sheltered spots in the garden. When the seedlings are 1 to 2 inches high, transplant them so that they may be 5 to 6 inches apart; after they have made a reasonable development they should be transplanted to their permanent places in the garden, letting them stand at least 1 foot apart.

Double Varieties, Mixed. This is a mixture made up from the finest camellia-flowered sorts, and contains an assortment of colors from clear white to the deepest blood-red. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

BEGONIA

The Begonia is one of the most attractive and delightful perennials, either for window-boxes during the winter or for bedding plants during the summer. Produces large masses of variously colored flowers with bronze and green foliage.

Vernon. A charming free flowering and highly effective variety with blood-scarlet flowers and bronze-colored foliage. Pkt. 25 cts.

Vulcan. Flowers brilliant dark scarlet. Dark foliage. A splendid variety. Pkt. 25 cts.

Mixed Everblooming varieties. Pkt. 25 cts.

CALENDULA or POT MARIGOLD

Hardy annual about 1 foot high. Sow in open ground early in spring. The plants will bloom early in the summer and continue until frost.

Double Mixed. Pkt. 5c., $\frac{1}{2}$ oz. 15c., oz. 25c.

CALLIOPSIS

These are well-known garden plants, the tall-growing varieties being especially good for mass planting. The dwarf sorts are superb for making color edging for beds or for planting in pots for decorative purposes.

Dwarf Varieties, Mixed. This collection includes shades of yellow, deep crimson, yellow with bronze center, and other combinations. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

CANARY-BIRD VINE

A species of *Tropaeolum* that makes an excellent annual growth. The flowers are brilliant yellow, and some people imagine that they resemble a bird with half-expanded wings. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

See our list of Garden and Farm Books
on Third Cover Page

CANDYTUFT

For many years these plants have been highly prized for mass planting, or for the border of walks and flower-beds. Sow the seed in the garden where the plants are to stand; after they are up, thin out plants so that the remainder may have plenty of room to develop.

Giant Empress. One of the finest of the family; the flowers are extra large, both in size of the truss and of individuals. The color is pure white. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

CANNAS

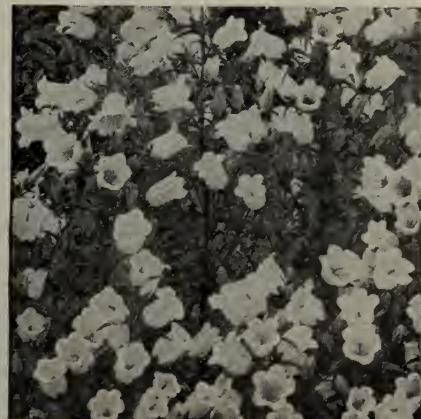
The old-fashioned name of these tall-growing plants is "Indian Shot." As a general rule they are raised from the roots, but there is a great deal of pleasure in starting the little plants from seed, and there is practically no difficulty in securing good specimens. Before planting the seed, it is well to file or scrape the sharp edge and then place the seed in damp moss; the outer shell is extremely hard and unless an opening is made the seeds are not likely to germinate. Set out as soon as started.

Large-flowered Dwarf Varieties, Mixed Colors. The seeds are saved from some of the most brilliantly colored plants, and include deep reds, yellows, and red and yellow striped and shaded. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.

CANTERBURY BELLS

The "Campanulas," "Blue Bells," or "Canterbury Bells," as these plants are variously known, produce large, bell-shaped flowers of varying colors; some are clear white, others dark blue, others have shades of red. They are especially effective when planted in masses, and the seed may be sown from the first of June to the first of September. The plants should be protected with leaves or straw during the winter months.

Single Varieties, Mixed Colors. A mixture of the large-flowering varieties, containing white, pink and blue sorts. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.



SINGLE CANTERBURY BELLS

CARDINAL CLIMBER

A strikingly beautiful early-flowering species with exceedingly ornamental, deeply laciniated foliage and large brilliant deep cardinal-red flowers. Pkt. 25 cts.

MARGUERITE CARNATIONS

These plants, which bloom in three to four months after sowing the seed, are really the most satisfactory of the "Pinks." The flowers are large, quite fragrant and useful for cutting.

Mixed Colors. The mixture includes yellow, scarlet, white, pink, and variegated. Pkt. 10c., $\frac{1}{2}$ oz. 40c., oz. 75c.

CASTOR BEAN

The Castor Beans are extremely large annual plants, that may be used for ornamental hedges, for the center of beds of cannas and other tall-growing plants.

Ricinus Zanzibarensis. The Zanzibar Castor-Oil Plant is a new and distinct sort. The leaves are enormous, often 2 to $2\frac{1}{2}$ feet across, and the plants frequently reach 12 feet in height. Pkt. 5 cts., $\frac{1}{2}$ oz. 10 cts., oz. 15 cts.

Finest Varieties, Mixed. The mixture includes seeds of the best-known and most satisfactory named varieties. Pkt. 5 cts., $\frac{1}{2}$ oz. 10 cts., oz. 15 cts.

CLARKIA

An annual plant that has been greatly improved during recent years. The plants do well in sun or in shade, and under ordinary conditions will grow from 2 to 3 feet in height.

Elegans fl.-pl. The flowers of this variety are full-double and of the finest mixed colors. Pkt. 5 cts., $\frac{1}{2}$ oz. 15c., oz. 25c.

COREOPSIS

No flower is longer in bloom during the whole season than Coreopsis. It is a most excellent cut-flower, lasting well. Color bright yellow; flowers large and showy. Hardy perennial, easily grown from seed. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.



COREOPSIS

CELOSIA CRISTATA

The Crested Cockscombs produce large, brilliantly colored, comb-like heads. Most useful when planted in masses or used for the borders of large beds.

Finest Mixed Colors. The varieties in this mixture are of various shades of orange, red and yellow. Pkt. 5 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts.

CENTAUREA

Cyanus. Variously known as the "Ragged Sailor," "Bachelor's Button," or "Cornflower." The plants are from 8 inches to 2 feet high, and will bloom in almost any situation. Various colors in mixture. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

Imperialis. This is one of the large-flowering Sweet Sultans, and probably the finest of all the class for cut-flowers. The blooms are very fragrant, borne on long stems and are of various colors and markings, including crimson, pink, purple, violet, and lilac. **Mixed Colors.** Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

CHRYSANTHEMUMS

Carinatum hybridum. These are double annual sorts, of the finest mixed colors. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

COBAEA SCANDENS

An annual climber of extremely rapid growth. The flowers are purple, bell-shaped, from $1\frac{1}{2}$ to 2 inches across and fully 2 inches in length. Plant the seed in damp soil, pressing down lightly. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

COLEUS

Ornamental-leaved bedding plants that are extremely effective when used as border plants or when used in formal bedding.

Hybridus. A strain of finely colored plants that may be used for the garden or house culture. Easily raised from seed. Pkt. 25 cts.

COLUMBINE

The botanical name of these plants is "Aquilegia." The plants and flowers are especially effective when planted in a damp situation. Seed may be sown in the open ground; as the plants are perfectly hardy they will not require protection, and will form large clumps.

Finest Varieties, Mixed. A mixture of named sorts, including the common yellow and scarlet Columbine, as well as some of the extra-long-spurred varieties. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.



LADY LENOX COSMOS

COSMOS

For fall blooming no plant is superior to the Cosmos. The specimen plants grow very large, have delicately cut foliage, and will produce hundreds of blooms from the first of September until killed by frost. Sow the seed in the house, or in hotbed, in early March if possible, certainly not later than the middle of May; transplant to the open ground, setting the plants from a foot to 18 inches apart.

Mammoth Lady Lenox. A variety with enormous blooms of a delicate shell-pink. This is, without doubt, the finest Cosmos ever produced, and has created a sensation wherever seen. Splendid for cutting, as the flowers will remain fresh for some time. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

Early-flowering, Mixed. The large-flowered varieties are included in this mixture; the colors are white, pink, red, and crimson. Pkt. 5c., $\frac{1}{2}$ oz. 25c., oz. 45c.

Mammoth Fine, Mixed. Excellent for cutting. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

CYPRESS VINE

A graceful climber, with scarlet and white flowers which are produced in great profusion. The foliage is finely cut and especially useful in ornamental designs. The seed should be soaked in warm water before sowing.

Mixed Colors. We have two varieties in this mixture—white and scarlet. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

SHASTA DAISY

A hardy perennial which produces pure white flowers with a yellow center. The blooms will open from $2\frac{1}{2}$ to 4 inches in diameter, and are borne on long, stiff stems. They will remain fresh for two weeks or longer. Pkt. 5 cts., $\frac{1}{2}$ oz. 60 cts., oz. \$1.

DAISY

These are the old-fashioned English Daisies. The seed should be sown very early in the spring, and when the plants are of sufficient size transplant to the border, setting them about 6 inches apart.

Double Varieties, Mixed. A mixture of the best imported seed, producing flowers from pure white to deep crimson. Pkt. 10 cts., $\frac{1}{2}$ oz. \$1.50, oz. \$2.50

DAHLIAS

It is a very easy matter to raise Dahlias from seed, provided the seed is started early in the spring in the hotbed or in a sunny window in the house. The plants may be set outdoors after danger of spring frost is over.

Double Varieties, Mixed. Some of the best named sorts are included in this mixture, and we feel sure you will be pleased with the results that you obtain from the plants raised from seed. Pkt. 10 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.40.

EUPHORBIA

These are very showy ornamental plants growing about 2 feet in height. They can be raised without difficulty from seed.

Variegata. Commonly called "Snow-on-the-Mountain." Leaves deep green, marked with white. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.



ESCHSCHOLTZIA

ESCHSCHOLTZIA

The plant is much better known under its common name of California Poppy. It is a hardy annual, with finely cut foliage, and usually is in bloom from June until frost. The flowers are large, somewhat like the poppy in shape, and of the most brilliant colors. The plants are about a foot high, and are desirable for borders or large beds.

Mixed Colors. The plants from this mixture produce flowers of deep golden yellow, rich crimson, orange, carmine, rose and various shade combinations. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

FORGET-ME-NOT

The Forget-me-not, or *Myosotis*, is a biennial, but it will bloom the first season from seed. If the seed is sown in the spring, flowers may be expected in early fall. If spring-flowering plants are desired, sow the seed in the open ground in July and transplant the seedlings about the middle of September. Pkt. 5 cts., $\frac{1}{2}$ oz. \$1, oz. \$1.75.

FOUR O'CLOCK

The flowers are the old-fashioned "Marvel of Peru." Open about four o'clock in the afternoon, remaining open during the night, and shut the next morning. The plants are about 2 feet high, with plenty of brilliant foliage and many fragrant flowers in varying colors. If the plants are set about a foot apart they will make an effective hedge.

Mixed Colors. The colors include white, violet, deep red, crimson and scarlet. Many of the flowers are beautifully striped and splashed. Pkt. 5 cts., $\frac{1}{2}$ oz. 10 cts., oz. 15 cts.

FOXGLOVE

The long, thimble-shaped flowers of the *Digitalis*, or Foxglove, are particularly effective when the plants are grown in masses. The flower-stems are at least 3 feet in height and are covered the greater part of their length with buds which open from the base clear to the tip of the stem. Immediately after blooming, remove the flower-stalk clear to the ground, and crop some of the large leaves; this will result in a number of new plants which start from the old crown and will produce flowers the next year.

Mixed Colors. White, purple and various shades. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.



FOXGLOVES

GAILLARDIA

The Blanket Flowers, as they are frequently known, are extra-good bedding plants. The flowers are large and showy, and are produced throughout the whole summer. Protect during the winter.

Grandiflora. A perennial variety which may be kept in the garden for several seasons. The flowers are exceptionally good for cutting; the varying colors are orange-yellow, crimson and scarlet. Pkt. 5 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

GOURDS

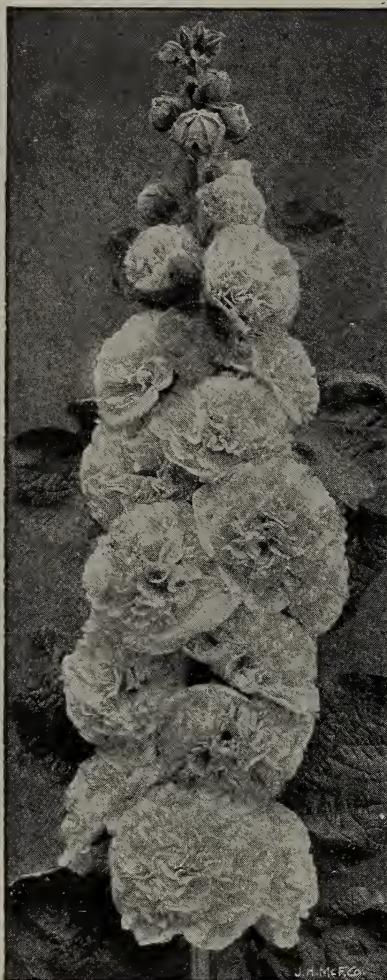
The ornamental Gourds are useful for covering old fences and stumps, or training over trellis or summer-house.

Dish-Rag. Sometimes called the Sponge Gourd. When the fruit is ripe the inside looks very much like a sponge or fibrous cloth. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Dipper. If you have ever traveled through the country you have seen this Gourd hanging by the "old oaken bucket." Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Mixed Varieties. This mixture contains the two preceding varieties as well as others of the Gourd family. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Ornamental, Mixed. The finest varieties. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.



DOUBLE HOLLYHOCKS

GOMPHRENA

The Globe Amaranth, as this plant is commonly called, produces button-like flowers which are fine for cutting. It is one of the "Everlasting" flowers, and the blooms may be cut and dried for winter ornaments.

Various Colors in Mixture. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

GYPSOPHILA

"Baby's Breath" is a feathery plant with little star-shaped flowers used in making up bouquets. Grows easily in every garden. 2 to 3 feet high.

Elegans, White. Pkt. 5c., $\frac{1}{2}$ oz. 10c., oz. 15c.

HELICHRYSUM

The "Straw Flower" is one of the best of the so-called "Everlastings." The flowers are from 2 to 3 inches in diameter, borne on long stems.

Monstrosum, Double Varieties, Mixed.

An assortment of colors, including reds, yellows and orange. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

HELIOTROPE

A familiar plant, principally grown on account of the delightful fragrance and foliage. Can be grown either in pots for the house or in the garden.

Extra-Fine Mixture of Dwarf Varieties.
Pkt. 10 cts., $\frac{1}{2}$ oz. \$1.25, oz. \$2.

HELIANTHUS PURPUREUS

The true Red Sunflower, ranging in color from light rose to the deepest purple-red. Pkt. 10 cts., $\frac{1}{2}$ oz. \$1.25, oz. \$2.

HOLLYHOCK

Where tall-growing plants are required there seems to be nothing that surpasses the Hollyhocks. The plants will average 5 feet in height, and in good soil and situation will bloom freely during the summer. Seed is usually sown in July or August, and if the little plants are protected during the winter with a mulch of straw or leaves, flowers may be expected from these plants the following summer.

Finest Double Varieties, Mixed Colors.

This is a collection from some of the finest named sorts, and the colors include white, yellow, pink, red, and deep maroon. Pkt. 10 cts., $\frac{1}{2}$ oz. 50 cts., oz. 90 cts.

HOP

The Japanese Hop, or *Humulus japonicus* is a rapid annual climber. The foliage resembles that of the common Hop, but is thicker and grows more freely, forming a denser screen. The plants will grow almost anywhere and will stand heat and dry weather. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

Folii variegatis. Similar to the above, excepting that the leaves are variegated with white. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

HYACINTH BEAN

A rapid-growing climber, bearing many flowers which are followed by brilliant purple seed-pods. Sow the seed where the plants are desired, selecting a warm, dry spot, if possible. A splendid vine for the porch where deep shade is not desirable.

Dolichos Lablab, Mixed Colors. Pkt. 5 cts., $\frac{1}{2}$ oz. 10 cts., oz. 15 cts.

ICE PLANT

A half-hardy annual, with tender almost transparent leaves and branches. On account of its drooping habit it is valuable for basket and vase planting. Also fine for edging beds of geraniums, cannas, and other bedding plants. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

JOB'S TEARS

An ornamental grass which grows from 2 to 3 feet high, and bears large, ivory-white seeds, from which it gets its name. The children enjoy making necklaces of the hard seeds. Pkt. 5 cts., $\frac{1}{2}$ oz. 10 cts., oz. 15 cts.

KOCHIA

An ornamental hedge plant, familiarly known as "Summer Cypress." Plants grow about 2½ feet in height, with the branches close to the main stem, giving it a form similar to that of a clipped evergreen. During the summer the foliage is bright green, but in September the color changes and in the course of a week or two the whole plant is solid ball of crimson. Sow the seed in the open ground about the middle of May, thinning the seedlings so that they will stand about 2 feet apart. Transplanting also may be resorted to, and the plants grown in any part of the garden. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25c.

LARKSPUR

The annual Larkspurs are free bloomers, producing long spikes of flowers in many varying colors. Seed may be sown in early spring, and the plants should be set about 8 to 10 inches apart. These are as beautiful as the perennial Larkspurs, or Delphiniums, and their spikes of flowers standing up stiffly among the leaves of other plants make a most beautiful effect.

Double Dwarf Rocket, Mixed Colors.
Plants grow about 1 foot in height. The colors include light and dark blue, violet, white, pink and rose. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

LOBELIA

Crystal Palace compacta. Rich dark blue; dark foliage; extra fine. Pkt. 5 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.25.



DOUBLE DWARF LARKSPURS



MARIGOLD

MARIGOLD

The African Marigolds grow considerably taller than the French varieties. If the seed is sown in a coldframe in the spring, the young plants must be transplanted where they are to remain; therefore it is less trouble to sow the seed in the open border and thin the plants until they stand from 8 to 10 inches apart.

African Double Varieties, Mixed Colors.
Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.



MIGNONETTE

MIGNONETTE

The Sweet Mignonette may be grown at any time of the year, for the seeds may be sown in pots in the house or in the open ground. If the plants are set in a cool, shaded place they will continue to bloom all through the fall.

Sweet (*Reseda odorata grandiflora*). Pkt. 5 cts., $\frac{1}{2}$ oz. 10 cts., oz. 15 cts.
Golden Machet. Pkt. 5c., $\frac{1}{2}$ oz. 20c., oz. 35c.



JAPANESE MORNING-GLORY

MIMOSA PUDICA

Commonly called the "Sensitive Plant"; the leaves will close up when touched. Start the seed under glass and do not set the plants in the open ground until the weather is thoroughly warm. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.

MOONFLOWER

Rapid-growing climbers that succeed best if the seed is sown in a hotbed and transplanted once or twice before setting in the open ground.

Ipomoea grandiflora alba. The true Moonflower. The flowers are clear white and from 3 to 4 inches in diameter. Pkt. 10 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts.



MOURNING BRIDE



MIMULUS

These plants are variously known as "Musk Plants" and "Monkey Flowers," so called from the resemblance of the flower to a mask or face. They are very good for baskets, vases or house culture. **Moschatus (Musk Plant).** Leaves musk-scented; bears small yellow flowers. Pkt. 5 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.25.

MOMORDICA

These plants really belong in the Gourd family, as they are rapid-growing climbers, producing ornamental fruit and foliage that is dense enough to make a pleasing shade.

Charantia (Balsam Pear). Is grown by the Chinese under the name of La-Kawa. Fruit is edible and is usually prepared by boiling before it is fully ripened. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

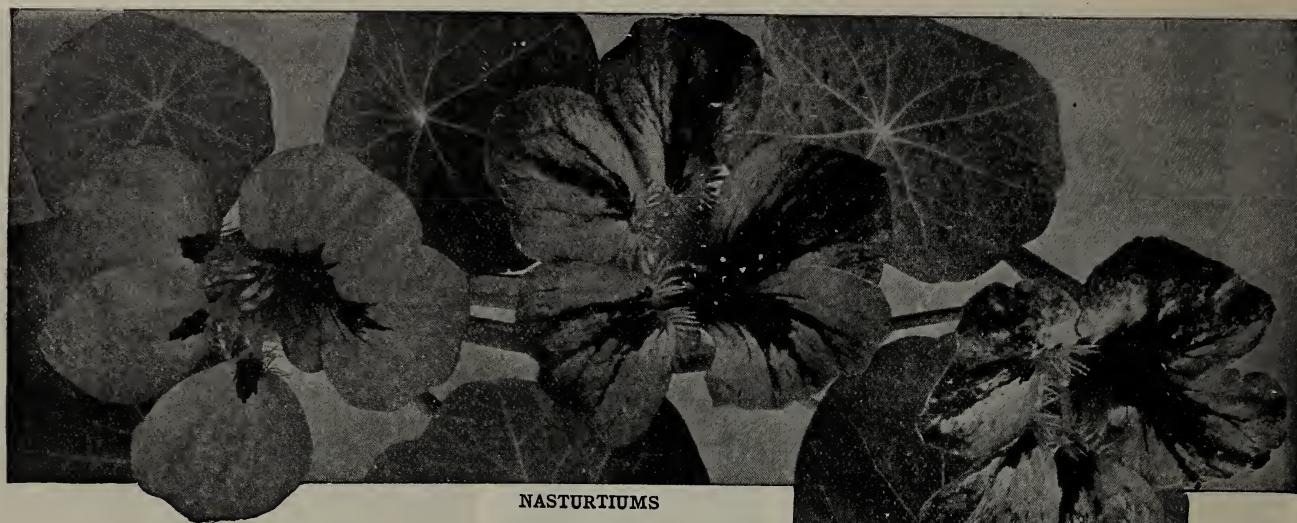
Balsamina (Balsam Apple). A more slender and graceful climber than the Balsam Pear. The flowers are yellow, with a blackish center, followed by an orange-colored fruit, from $2\frac{1}{2}$ to 3 inches long. Often used for medicinal purposes. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

MORNING-GLORY

Exceptionally good plants on account of their rapid growth and frequency of bloom. The seeds germinate quickly and readily, and may be sown anywhere the plants are to remain during the season.

Fine Varieties, Mixed. This mixture is from seeds of the common Morning-Glory. The colors in the mixture are white, light and dark blue, carmine, bright red, violet and variegated. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

Giant Japanese. A strain of Morning-Glories with extra-large flowers, often from 4 to 6 inches across. The colors vary from clear white to deep blood-red, white with pink throat, mauve with a white throat, and many other exquisite shadings and markings. Sold only in mixed colors. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.



NASTURTIUMS

MOURNING BRIDE

An old-time garden flower properly known as "Scabiosa." The flowers are borne on long stems and are beautiful either in the garden or when cut for bouquets. The plants are from 12 to 18 inches high.

Mixed Colors. White, yellow, crimson, scarlet, maroon and delicate pink will be found in this mixture. Pkt. 5 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

NASTURTIUMS

Few annual flowers give such general satisfaction as the Nasturtium, and undoubtedly there are no flowers of easier cultivation. They require only moderately good soil, for if the plants are grown in rich soil there is quite likely to be a dearth of blossoms and an abundance of foliage. The plants endure hot, dry weather and will give their brilliantly colored blossoms all through the season.

Dwarf Varieties, Fine Mixed Colors.

The Tom Thumb Nasturtiums are used for making masses of colors. The flowers vary in color from a delicate pink and primrose, to deep crimson-maroon, so dark that the appearance is almost black. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 35c., lb. \$1.25.

Tall Varieties, Fine Mixed Colors. The tall Nasturtiums are used for covering trellises and railings, or may be grown over rockwork with fine effect. The colors vary fully as much as in the dwarf sorts. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 30c., lb. \$1.

NICOTIANA

Annual plants, growing about 3 feet high, with delicate, fragrant flowers.

Affinis. Easily grown from seed. In the evening and early morning the plants are loaded with large white, pink-tinged flowers, which are deliciously scented. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.

Sanderæ. Pkt. 10c., $\frac{1}{2}$ oz. 25c., oz. 45c.

PANSY

Everyone knows the Pansy; the beautiful, brilliantly colored blossoms are favorites in every garden. The seed should be sown in April or early May, for the plants will grow and bloom much better in the cool days of the early spring than in the hot days of summer. In spring, of course, the plants must be sown in hotbeds or in the house, and plants transplanted to the garden. If blooming plants are wanted for the fall, the seed may be sown about the middle of July, in a cool, shaded place, and the plants transplanted as soon as they are of the proper size. Seed sown in August or early September will give extra-early spring-blooming plants, provided some protection is given to the bed during the winter months. This can readily be done with a coldframe or by covering the plants with strawy manure, leaves or litter of any kind.

Finest Mixed Colors. This mixture of the choicest English and American varieties will give many beautiful colors. Pkt. 5 cts., $\frac{1}{2}$ oz. \$1.50, oz. \$2.50.

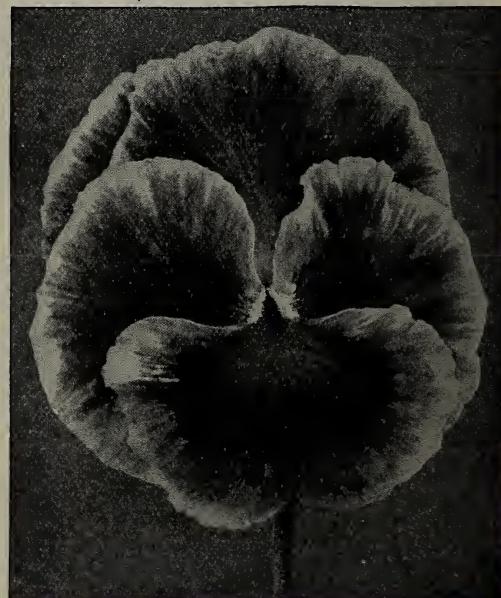
Cassier's Giant, Mixed Colors. Some of the most beautiful blotched varieties are included in this mixture. The flowers are extra large and of the most gorgeous colorings. They are borne profusely, each flower having a strong, stiff stem. Pkt. 20 cts., $\frac{1}{2}$ oz. \$4, oz. \$7.

Trimardeau. These Giant French Pansies are the finest that come into our country. The colors vary from soft lavender-blue to deep purple, and from pure white to mahogany and gold. Pkt. 10 cts., $\frac{1}{2}$ oz. \$2.75, oz. \$5.

PERENNIAL PEAS

Perfectly hardy climbers that will live from year to year. The plants grow from 5 to 6 feet high and are covered with a multitude of blossoms.

Mixed Colors. Including red, rose and white. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25c.



PANSY

PETUNIA

If a reasonable amount of care is used in sowing Petunia seed there will be no trouble in getting a fine start of plants. The seeds are extremely small, and, therefore the soil must be well fined or pulverized; sow the seed carefully on the surface of the soil, then press the soil very lightly with a smooth board; sometimes a very light coat of sand is sprinkled over the surface. Seed sown in coldframe in early spring will usually produce flowering plants in June.

Dwarf Inimitable. The plants are seldom more than 7 inches high and are covered with single flowers, some of which are striped, as well as showing almost solid colors. Pkt. 5 cts., $\frac{1}{2}$ oz. 75c., oz. \$1.25.

Rosy Morn. Flowers are soft carmine-pink, with white throat. Very effective for border planting. Pkt. 10 cts., $\frac{1}{2}$ oz. \$1, oz. \$1.75.

Single Varieties, Fine Mixed Colors. This mixture of Petunia seeds will give a magnificent show of blooms all summer. Flowers are of all colors and shades. Pkt. 5 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.25.

Double Fringed. Somewhat of a novelty in that the petals are curved and crinkled, giving the flowers a peculiar appearance. The mixture contains white, rose, red and various shades. Pkt. 25 cts.

PHLOX DRUMMONDI

One need have no fear in planting good Phlox seed, for the seed will germinate under almost any condition. The seed may be sown in the open ground in early spring, or may be started in hotbed or coldframe if extra-early blooming plants are desired. If the seedlings are transplanted from the coldframe they should be about a foot apart.

Finest Colors. Mixed. It is almost impos-



PHLOX DRUMMONDI

PHLOX DRUMMONDI, con.

sible to describe the range of colors in this mixture; there are dark purple flowers with a white eye, rose-colored flowers with white centers, brilliant scarlet, pure white and light yellow. Pkt. 5 cts., $\frac{1}{2}$ oz. 65 cts., oz. \$1.

Nana compacta. These are dwarf-growing plants, desirable for edging and for ribbon beds. Usually grow from 6 to 8 inches in height. Pkt. 10 cts., $\frac{1}{2}$ oz. \$1.25, oz. \$2.

PINKS

The Chinese and Japanese Pinks, or Dianthus, as they are technically known, are glorious garden flowers. They will make a magnificent showing when massed in beds, or can be used as specimen plants if one desires. Seed sown in March or April will give blooming plants about the first of July.

Chinese or Indian, Mixed Colors.

All varieties in this mixture are double-flowered and contain wide range of coloring. Pkt. 5c., $\frac{1}{2}$ oz. 40c., oz. 75c.

Japan Single, Mixed. Improved extra-fine mixed. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.

POPPY

Very showy garden flowers, probably the most gorgeously colored of any of the annuals. Sow the seed where the plants are to stand, and thin out the seedlings so that the remaining plants may have room to develop; on account of the long tap-root it is not practicable to transplant Poppies.

Shirley. Probably the most showy of the



SINGLE PETUNIAS

POPPY, continued

single-flowered Poppies. The colors have a wide range from delicate pink to deep carmine, and from white to brilliant crimson. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.

The Tulip. A distinct variety in the Shirley type. The flowers are vivid scarlet and are extremely beautiful. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

Double-flowered Mixed Colors. Many of the most beautiful, double-flowered Poppies are included in this mixture. Some of the varieties come from the finest new sorts. Pkt. 5 cts., $\frac{1}{2}$ oz. 15c., oz. 25 cts.

Iceland, Mixed. A graceful delicate variety, 12 inches tall, with white, orange and yellow single blossoms, the petals resembling crumpled tissue paper. The plant is low and compact, excellent for cutting. Sow in the fall, where plants are to remain, and thin. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

Oriental. The large Oriental Poppy. A hardy plant bearing large, brilliant crimson flowers with a black blotch on each petal. Very showy and attractive. 2½ feet tall. Pkt. 10 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts.

PORTULACA

If you have an extremely hot and sunny place in the garden, plant Portulacas. They will stand almost any amount of heat and will continue to grow and bloom throughout the whole summer. The plants are of a low growth and spreading habit. Sow the seed in the open ground when the weather is warm. The plants can be moved when they are in full flower, and make delightful borders to beds of other flowers.

Single, Mixed Colors. Almost all the colors of the rainbow are included in this mixture. Pkt. 5c., $\frac{1}{2}$ oz. 30c., oz. 50c.

Double, Mixed Colors. Pkt. 10 cts., $\frac{1}{2}$ oz. \$1.50, oz. \$2.75.



SALVIA SPLENDENS

PRIMULA

The old familiar Cowslip that grows in damp places belongs to the Primula family, although it is not cultivated for its blossoms. The seeds included in the mixture that we offer should be sown under glass and the seedlings transplanted to the garden in the early spring. The plants are perennials, but should have slight protection during the first winter. They bloom profusely and keep up a continuous succession of flowers all summer.

Fine Varieties, Mixed Colors. Pkt. 10 cts., $\frac{1}{2}$ oz. \$1.50, oz. \$2.75.

PYRETHRUM

Hardy perennial plants of the very easiest culture. Seed may be started under glass or sown in the open ground. Early plants usually begin to bloom in June, and if the flower-stems are cut, a second lot of flowers may be had in the fall.

Double White (Feverfew). Large, clear white flowers that make a splendid showing in the garden. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

Golden Feather. Foliage yellow. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

RHODANTHE

An annual plant desirable for the garden or pot culture. This is one of the so-called "Everlastings," and if the flowers are cut and dried they may be retained for winter decorations. Cut the flowers with long stems and hang inverted in a dry, dark place. This will preserve their colors.

Mixed Colors. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

SALPIGLOSSIS

An old-time garden flower that ought to be planted in all modern gardens. It is peculiarly distinct in its markings, the flowers being red, tinted with delicate and beautiful colors. The flowers are grouped on long stems and are desirable for cutting.

Dwarf Varieties, Finest Mixed Colors.

All the rich, velvety colors of the Salpiglossis are shown in this mixture—purple, crimson, rose, white, etc. Pkt. 5 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts.

SALVIA

The Scarlet Salvia, or Flowering Sage, makes a brilliant bedding plant, blooming from the middle of July until the plants are killed by the frost. An effort should be made to secure early plants, and therefore the seed should be sown indoors or in a coldframe sufficiently early in the spring so that you may secure plants to set in the garden during the month of May.

Splendens. The true Flowering Sage, with extra-large, brilliant scarlet blossoms. Keeps up a blaze of color until fall. Pkt. 10 cts., $\frac{1}{2}$ oz. \$1.75, oz. \$3.

Bonfire. Also known as "Clara Bedman." No other Salvia equals it for mass planting; brilliant, dazzling scarlet. Pkt. 10 cts., $\frac{1}{2}$ oz. \$2, oz. \$3.50.

Dwarf Zurich. Very early and compact, with large brilliant spikes. Pkt. 10 cts., $\frac{1}{2}$ oz. \$2, oz. \$3.50.

SNAPDRAGON

Another old-time favorite found in gardens everywhere. The plants are usually from 2 to 3 feet high and well covered with blooms all summer. The peculiarity of the plants is that they bloom best and longest when planted in poor soil. Sow the seed outdoors where the plants are to stand, and thin out the seedlings to about a foot apart.

Large-flowering Tall Varieties, Mixed Colors. In this mixture you will find crimson, deep scarlet, rose, yellow, white and striped flowers. Pkt. 5 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

STOCKS

Ten Weeks Stocks are annual plants, have fine foliage and beautiful flowers; not only may one have Stocks in the garden, but plants may be taken up in the fall, potted, and carried over the winter in the house and will bloom almost as freely as out-of-doors.

Dwarf German. Strong-growing plants that will produce a multitude of blooms. The seeds have been saved from field-grown specimens, and includes an assortment of many colors. Pkt. 10 cts., $\frac{1}{2}$ oz. \$1.25, oz. \$2.25.

Our packets of flower-seeds are of liberal size, and we pay particular attention to having the seed fresh and full of vitality. They can be planted with full assurance of the most satisfactory results.



SALPIGLOSSIS



DWARF GERMAN STOCKS (see page 43)

WALLFLOWER

These are perennial plants, but in northern climates require some protection during the winter. As a general thing it is better to lift the plants in the fall and carry them over in a coldframe during the winter. The flower-stalks are fine for home decoration. Plants may be also potted and taken indoors for winter flowers.

Double Varieties, Mixed Colors. Pkt. 10 cts., $\frac{1}{2}$ oz. \$1.25, oz. \$2.50.

ZINNIA

The old-fashioned flowers of this plant have been so far surpassed by the new varieties that they seem to belong to an entirely different family. Seed sown almost anywhere in the garden will produce strong plants which will give plenty of blooms from early summer until late autumn. For extra-fine specimens plants should be set from 12 to 18 inches apart.

Elegans, Dwarf Varieties, Mixed. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.
Elegans, Tall Varieties, Mixed. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

OUR CATALOGUES

In addition to this Catalogue of Vegetable and Flower Seeds, we publish the following, and will be glad to send any or all of them to anyone interested in their contents upon request:

Our General Catalogue of Agricultural Implements, and Farm and Garden Supplies. This lists almost everything used on the up-to-date farm and market-garden.

Our Poultry Supply Catalogue. Contains Incubators, Brooders and everything needed in the raising of poultry.

We shall also be glad to answer any questions on the subjects of any of our catalogues.

SUNFLOWER

The Chrysanthemum-flowered Sunflower grows about 3 feet high, and produces extra-large double flowers of the purest golden yellow. The stems are very long and stiff, making the flowers ideal for cutting for decorative purposes. They are most effective when used in large vases. Pkt. 5 cts., $\frac{1}{2}$ oz. 10 cts., oz. 15 cts.

Cucumerifolius. Commonly called the Miniature Sunflower. Plants grow about 4 feet tall, bearing many richly colored yellow flowers that are single and quite small. Pkt. 5 cts., $\frac{1}{2}$ oz. 10 cts., oz. 15 cts.

SWEET WILLIAM

These plants are perfectly hardy, and when they are established in the garden may be increased by root division as well as from seeds. The individual flowers are large, are borne in splendid trusses, and are delightfully fragrant. They are very desirable and durable for cutting and have a wide range of colors.

Single Varieties, Mixed Colors. White, pink, purple, carmine and other colors included in this mixture. Pkt. 5 cts., $\frac{1}{2}$ oz. 10 cts., oz. 15 cts.

Double Varieties, Mixed Colors. Pkt. 10 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts.

VERBENA

These plants make a successful display during the summer, and will furnish quantities of flowers for cutting. Strong plants can be grown without difficulty from seed that is started in the house in early spring.

Mammoth. Red, White, Blue, or Pink, in separate colors or Mixed. Pkt. 10 cts., $\frac{1}{2}$ oz. 60 cts., oz. \$1.

Extra-Fine Varieties, Mixed Colors. A mixture from the most beautiful named sorts, containing specimens of white, yellow and scarlet, with shadings and markings that are beautiful. Pkt. 10 cts., $\frac{1}{2}$ oz. 50 cts., oz. 90 cts.

Choice Varieties, Mixed. Contains a wide range of colors, but the varieties are not quite so fine as those in the preceding mixture. Pkt. 5 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts.

WILD CUCUMBER

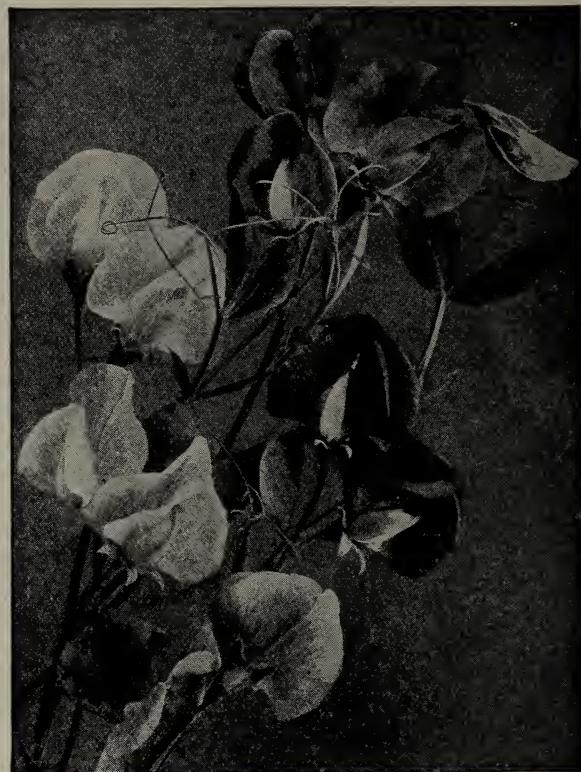
A rapid-growing climber, often running 30 to 40 feet in a season. The flowers are slightly fragrant, pure white and are followed by prickly seed-pods. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.



VERBENAS



SPENCER SWEET PEAS



ECKFORD'S MIXED SWEET PEAS

SWEET PEAS

Year by year Sweet Peas increase in popularity, and the English and the American growers vie with each other in growing and producing new and beautiful sorts. While some of the new sorts are desirable as novelties, a great number of the older varieties are far more desirable on account of their blooming qualities. The important thing in growing Sweet Peas is to get the seed into the ground early—the earlier the better. The usual method is to make a trench from 4 to 6 inches deep, sow the seed in the bottom and cover with an inch or two of soil; as the plants increase in height, fill in the trench which puts the roots a sufficient distance below the surface of the soil so that they will not be very seriously affected with hot, dry weather. Support for the vines should be furnished early. To obtain the largest and best blooms plants should be thinned out from 4 to 6 inches apart.

SPENCER SWEET PEAS

The flowers are distinguished by size, which under favorable conditions are 2 inches in diameter, and also by the wavy and fluted petals.

	Pkt.	Oz.	$\frac{1}{4}$ lb.	Lb.
Asta Ohn. Pinkish lavender.....	\$0 10	\$0 30	\$1 00	\$3 00
Countess Spencer. Pure pink....	10	30	1 00	3 00
Fiery Cross. Bright reddish orange- cerise.....	10	30	1 00	3 00
King Edward. The best pure red..	10	30	1 00	3 00
Etta Dyke. Pure white.....	10	30	1 00	3 00
Othello Spencer. Rich dark maroon.	10	30	1 00	3 00
New Miriam Beaver. Light apricot and buff.....	10	30	1 00	3 00
Primrose Spencer. Very large; pure primrose.....	10	30	1 00	3 00
Margaret Atlee. Rosy salmon-buff.	10	30	1 00	3 00
Wedgwood. Fine blue.....	10	30	1 00	3 00
Spencers, Finest Mixed.....	10	25	75	2 50

GRANDIFLORA SWEET PEAS

	Pkt.	Oz.	$\frac{1}{4}$ lb.	Lb.
Blanche Ferry. Standard carmine- rose, wings white, tinged pink...	\$0 05	\$0 10	\$0 35	\$1 25
Dorothy Eckford. Large, pure white	05	10	35	1 25
Dainty. White, with pink edges...	05	10	35	1 25
Duke of Westminster. Purple....	05	10	35	1 25

	Pkt.	Oz.	$\frac{1}{4}$ lb.	Lb.
Emily Henderson. Flowers large, Pkt. of the open form, and pure white.				
The seeds are also white.....	\$0 05	\$0 10	\$0 35	\$1 25
Hon. Mrs. E. Kenyon. Large; primrose.....	05	10	35	1 25
King Edward VII. The best red...	05	10	35	1 25
Lady Grisel Hamilton. Lavender..	05	10	35	1 25
Lord Nelson. A brilliant blue or deep navy-blue	05	10	35	1 25
Navy-Blue. Standard indigo and violet, wings indigo at base, shading to bright blue.....	05	10	35	1 25
Othello. Deep maroon; of immense size. One of the best dark Peas.	05	10	35	1 25
Prima Donna. A pure pink, hooded flower, over medium size.....	05	10	35	1 25
Queen Alexandra. Scarlet; one of the finest.....	05	10	35	1 25
Romolo Piazzani. Large; bright purple.....	05	10	35	1 25
Salopian. Bright red.....	05	10	35	1 25
Eckford's Finest Mixture. This assortment is of the finest va- rieties. Colors vary from white to pink, deep maroon and crimson.	05	10	30	1 00

AT PRICES QUOTED ON THIS PAGE WE PREPAY POSTAGE

SUMMER-FLOWERING BULBS



CALADIUM ESCULENTUM

CALADIUM ESCULENTUM

The familiar name of these well-known plants is Elephant's Ear; the plants are from 3 to 5 feet in height, with long, massive foliage, deep green in color, but shaded along the veins with lighter green. One of the most effective and easily grown foliage plants for lawn or border. The plants are very easily started from the bulbs, and will grow almost in any soil; if specially large plants are desired, it will be necessary to start the bulbs in the early spring in pots or large boxes, then transplant to the bed which has been well fertilized. During the whole season the plants should be given an abundance of water. The bulbs may be carried over winter by taking them up after the frost has killed the leaves, drying in the open air, then placing in boxes with dry sand or soil and storing in a frost-proof cellar.

	Each	Doz.	100
5 to 7 inches circumference.....	\$0 10	\$1 00	\$7 00
7 to 9 inches circumference.....	12	1 25	9 00
9 to 11 inches circumference.....	20	2 00	14 00
11 to 13 inches circumference.....	40	3 50	25 00
13 to 15 inches circumference.....	50	5 00	40 00

If wanted by mail, add for postage, 6 cts. per doz. for 5-to-7- and 7-to-9-in. bulbs, 15 cts. per doz. for 9-to-11-in. bulbs, and 25 cts. per doz. for 11-to-13- and 13-to-15-in. bulbs.

CANNAS

CULTURE.—Cannas should be planted in good, rich soil, say nearly half well-rotted manure, after all danger of frost is past. If wanted early, they may be started in boxes in the cellar and planted out about the middle of May. Plant about 2 feet apart. If more than one variety is planted, see that the tall varieties are planted in the center and the dwarf ones around this, giving a better effect.

If wanted by mail, add 10 cts. per dozen to the following prices

Alphonse Bouvier. Very large flowers, clear crimson, in large clusters. A grand variety for bedding; luxuriant green foliage. Height 4½ feet.....	Each \$0 08	Doz. \$0 90	100 \$6 00
Chas. Henderson. Flowers brilliant scarlet, with yellow flame in throat. One of the best for bedding; a profuse bloomer. Foliage green; compact. Height 3½ ft... .	08	90	6 00
Egandale. Flowers deep currant-red of a peculiar and pleasing shade. It is an early and constant bloomer. One of the best bedders grown; foliage rich bronzed-red. Height 3½ feet.....	08	90	6 00
Florence Vaughan. Fine yellow, with bright red spots. Height 4½ feet.....	08	90	6 00
Gladiator. An excellent bedder, having particularly fine foliage. Color golden yellow freely dotted with crimson. The best of its class. Height 4½ feet.....	08	90	6 00
Rosea Gigantea. Rich rose-pink flowers of gigantic size; a prolific bloomer. The large, broad petals and the massive heads of bloom invariably create a sensation when seen for the first time. Height 4 feet.....	10	1 00	7 00
King Humbert. Nothing to equal it for blazey effects in bedding; easily ahead of all bronze-leaved Cannas. Orange-scarlet, flaked carmine. Height 4 to 4½ feet.	10	1 00	7 00
Yellow King Humbert. A fine, large, yellow variety. Green foliage. Height 4 feet... .	10	1 00	7 00
Madame Crozy. Flowers brilliant vermilion-scarlet, with narrow gilt edge; foliage bright green. Height 3 feet.....	08	90	6 00
Crimson Bedder. Fine crimson. Height 3 feet.....			\$0 08
Firebird. A pure glistening scarlet, with big broad petals of fine substance; without an equal for purity of color. Height 3½ feet.....	10	1 00	7 00
Express. The best dwarf red Canna. Bright red-crimson. Height 2½ feet.....	08	90	6 00
Panama. Color rich orange-red with a well-defined border of bright golden yellow. Flowers of large size with enormous wide petals having much substance. Height 3 feet.....	10	1 00	7 00
Queen Charlotte. Flowers rich pomegranate-red, bordered with bright golden yellow. Height 2½ feet.....	08	90	6 00
Meteor. Deep, dazzling crimson flowers produced in mammoth clusters. Height 5 feet.....	10	1 00	7 00
Wintzer's Colossal. Without a doubt the largest-flowered Canna yet produced. Flowers of vivid scarlet, sometimes measuring 8 inches across. Height 5 feet	10	1 00	7 00
Mrs. Alfred F. Conard. Beautiful salmon-pink flowers of great size and wonderful substance, freely produced in large clusters. Height 4 feet.....	10	1 00	7 00
Golden Gate. The flowers open almost pure gold but soon become richly rayed with orange-crimson and apricot. Height 4 feet.....	10	1 00	7 00

WRITE FOR OUR FALL BULB CATALOGUE
ABOUT SEPTEMBER 1

GLADIOLI

An exceedingly popular plant, sometimes called the Garden Orchid. Almost every garden has a few bulbs of Gladioli, but most of them are of the old type, with small flowers. The more recent introductions are magnificent specimens. These should be planted the latter part of April or May for best results. Gladioli are particularly satisfactory for cut-flowers, as all the blooms on the spike will open if the cuttings are kept supplied with fresh water. The range of color is from white and pink to the most brilliant scarlet, deep crimson, rich yellow and various shades of blue.

If Gladiolus bulbs are wanted by mail, add 8 cts. per dozen for postage

America. A magnificent lavender-pink specimen. The flower-buds open very evenly, clear to the top of the spike. No other variety equals it for its value for house decorations. The bulbs are extra-selected stock, direct from the introducer. 9 cts. each, 90 cts. per doz., \$6 per 100.

Augusta. Lovely pure white, with blue anthers. 9 cts. each, 90 cts. per doz., \$6 per 100.

Brenchleyensis. This is one of the older varieties, but is still very popular on account of the color, which is intense vermillion-scarlet. Extra-select bulbs, 6 cts. each, 60 cts. per doz., \$4 per 100.

Baron J. Hulot. The deepest blue of any of the Gladioli. The shade is really a deep violet, although generally classed with the blue flowers. 10 cts. each, \$1 per doz., \$7 per 100.

Halley. A most attractive, early-blooming sort with large flowers of a delicate salmon-pink. 9 cts. each, 90 cts. per doz., \$6 per 100.

Hollandia. The flowers are of a delicate shade of yellow and are borne on long spikes. An extra-good variety for cutting. 9 cts. each, 90 cts. per doz., \$6 per 100.

Mrs. Francis King. A fine, strong-growing variety, with large spikes of showy flowers of a bright shade of pure scarlet. 9 cts. each, 90 cts. per doz., \$6 per 100.

Niagara. Leads all varieties for a good cream color; flowers blend to canary-yellow. 9 cts. each, 90 cts. per doz., \$6 per 100.

Pink Beauty. Bright pink with dark purple spots. This Gladiolus flowers about a month earlier than any other variety. 10 cts. each, \$1 per doz., \$7 per 100.

Principes. Beautiful, large expanded flower, of a bright scarlet color. 9 cts. each, 90 cts. per doz., \$6 per 100.

Glory of Holland. Large truss, pure white. 10 cts. each, \$1 per doz., \$7 per 100.

Empress of India. Dark brown-red. 9 cts. each, 90 cts. per doz., \$6 per 100.

Willy Wigman. Soft rose with blood-red blotch. 10 cts. each, \$1 per doz., \$7 per 100.

Panama. Extra-strong variety; large flowers of excellent pink color; generally known as the Improved America. 10 cts. each, \$1 per doz., \$7 per 100.

Schwaben. Delicate yellow, dark blotch in center. 10 cts. each, \$1 per doz., \$7 per 100.

Finest Mixed. This is a collection made up from named varieties, and includes some of the finest sorts in our collection, as well as named varieties that we do not catalogue. Bulbs are extra large and sure to produce satisfactory blooms. 6 cts. each, 60 cts. per doz., \$3.50 per 100.

TUBEROSE

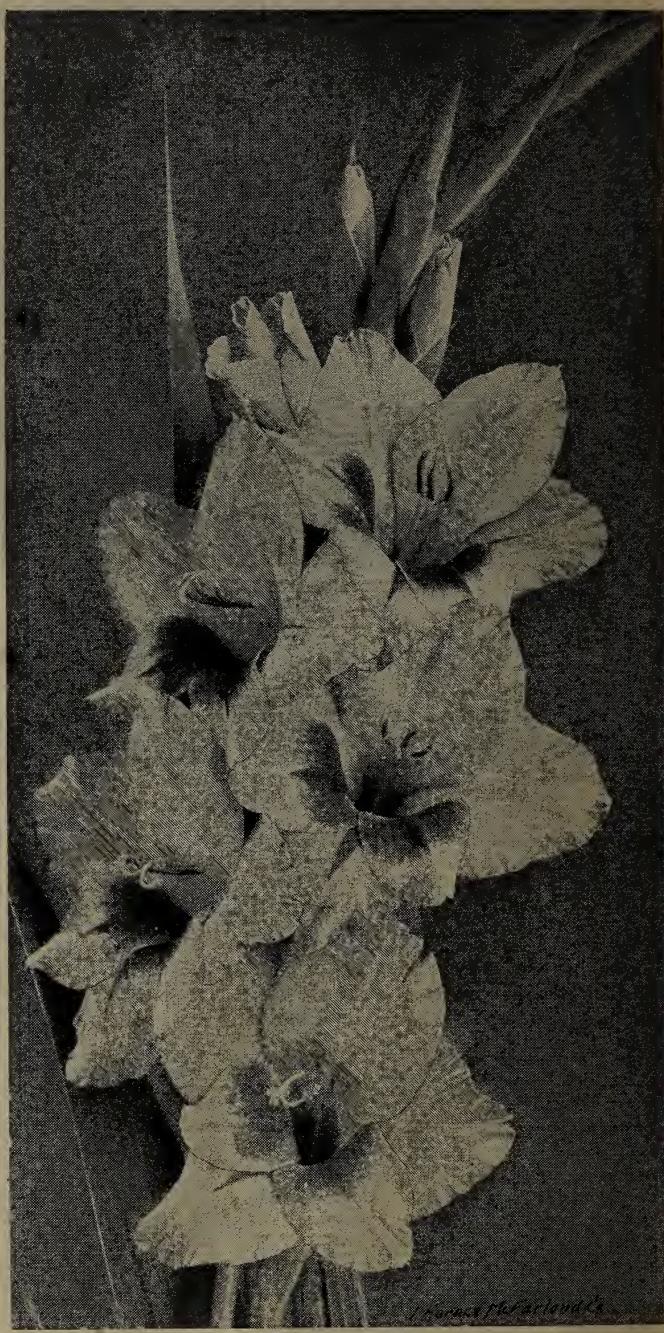
The bulbs should be started indoors, in February or March, and set in the open garden about the middle of April.

White Pearl, First Size. The flowers of this Tuberose are exceptionally large and full-double. 6 cts. each, 70 cts. per doz., \$4.50 per 100. If wanted by mail, add 10c. per doz. extra.

White Pearl, Mammoth. 9 cts. each, 85 cts. per doz., \$6 per 100. If wanted by mail, add 10 cts. per doz. extra.

MADEIRA VINE

A rapid-growing vine that is sometimes called "Climbing Mignonette." The foliage is light green; the plants bear



TYPE OF OUR GLADIOLI

many small, white, feathery flowers. The plants will grow anywhere and are free from insect pests of all kinds. Fine for porches, arches and trellises, and for covering rocks and stumps. Large, selected bulbs, 8 cts. each, 75 cts. per doz., \$5 per 100. If wanted by mail, add 8 cts. per doz. extra.

CINNAMON VINE

Splendid hardy climber of rapid growth, with bright green, heart-shaped leaves, and white cinnamon-scented flowers. 8 cts. each, 75 cts. per doz., \$6 per 100.

DAHLIAS

These are among the most valuable late summer- and autumn-flowering plants that we have. Some of the extra-early varieties will produce flowers in July; but, as a general thing, the blooms come about the middle of August. The bulbs should be set in an open, sunny place, where they may have light and heat the greater part of the day. If extra-fine specimens are desired, the soil must be well enriched and kept free from grass and weeds. Lay the bulbs on the side, covering with 2 or 3 inches of soil. The tall-growing varieties should be supported by stakes. After the frost has killed the foliage, the roots may be taken up and stored in a cool cellar. If wanted by mail, add 5 cts. each, or 25 cts. per dozen to the following prices

CACTUS DAHLIAS

These form a distinctive class, with petals that are curled, quilled and twisted in various shapes that differ radically from the standard Dahlias.

25 cts. each, \$2.50 per doz.

Alpenrose. (Cactus.) A fine flower, with twisted petals of a bright aniline red.

Countess of Lonsdale. (Cactus.) Rich salmon.

General J. B. Seth. (Cactus.) A rich gorgeous Dahlia of brilliant scarlet.

Lawine. White, showing blush as the flower matures.

Nancy Mae. (Cactus.) An intense scarlet, with maroon shading.

Standard Bearer. (Cactus.) Rich fiery red.

Winsome. (Cactus.) Pure white.

Order your Spring Bulbs and Dahlias early
while our stock is complete



CACTUS DAHLIAS

SHOW AND DECORATIVE DAHLIAS

The Show Dahlias include the old-fashioned, ball-shaped, double flowers; they are somewhat stiff when compared with the Cactus sorts, but are popular because of the brilliant colors and extra size. The Decorative Dahlias have broad petals and are quite loosely formed, although in general appearance the flowers are more compact than those of the Cactus Dahlia. Both the Show and Decorative Dahlias are splendid for cutting.

25 cts. each, \$2.50 per doz.

A. D. Livoni. (Show.) Rich seashell-pink.

Augusta Nonia. (Decorative.) A very large flower of fiery red.

Beloit. (Decorative.) Large, bright, glowing crimson.

Delice. (Decorative.) Beautiful, glowing rose-pink; good stems. Fine for cutting.

Dorothy Peacock. (Decorative.) A beautiful show; color best shell pink.

Jack's Discovery. (Decorative.) White, mottled violet rose.

Wm. F. Gude. (Decorative.) Pure white; long stems, good keeper; fine for cutting.

Yellow Duke. (Decorative.) Pure canary-yellow.

PÆONIA OFFICINALIS ROOTS

25 cts. each, \$2.50 per doz.

Rubro-plena. The old-fashioned Peony; deep red; early.

Rosea. Fine pink.

Mutabilis. White.

DICENTRA SPECTABILIS (Bleeding Heart)

The old-fashioned favorite heart-shaped flowers. 20 cts. each, \$2 per doz.

DECORATIVE DAHLIA

SEE OUR LIST OF GARDEN AND FARM BOOKS ON THIRD COVER PAGE

Savo

ALL-YEAR-ROUND

FLOWER-AND PLANT- BOX



PATENTED, JAN. 23, 1917

MADE OF HEAVY GALVANIZED STEEL

Self-Watering—Sub-Irrigating

Waters the growing plants from the bottom making longer roots and better plants, leaving top-soil mealy and loose. No surface watering.

Pour water into the tube once a week.
Perfect air circulation and drainage

All-Year-Round Flower-Box

Leak-proof and rust-proof. No transplanting—you can move Savo Boxes indoors or out and have beautiful flowers and plants the year round.

FOR WINDOWS, PORCHES, SUN-PARLORS

Six sizes—artistic in design and beautifully finished in aluminum or dark green.

Price-List

Model	Height	Width	Length	Each
A	6½ in.	6½ in.	23 in.	\$3 00
B	8 in.	9½ in.	29 in.	3 50
C	8 in.	9½ in.	35 in.	4 00
D	8 in.	9½ in.	41 in.	4 50
E	8 in.	12 in.	12 in.	3 00
F	12 in.	12 in.	12 in.	3 50

These are outside measurements, including the $\frac{3}{4}$ -inch roll rim. Special sizes made to order when required.

Walker's Excelsior Plant Food

THE ESSENCE OF PLANT LIFE

For House Plants and Flower-Gardens



An odorless preparation, combining in a concentrated and soluble form every element required in plants and flowers to produce vigorous growth and a profusion of flowers and fruit. Wonderful results are obtained, after one or two applications. It is immediately soluble in water, and available to plant-life from the moment of application.

Walker's Excelsior Plant Food

assists in retaining moisture. Will mature plants from two to three weeks earlier. Where the plant food has been used boll weevil, cut-worms, and wireworms cannot live.

Sold in powdered form and is used dry or by dissolving in water.

2½-oz. can	15 cts., postpaid.....	\$0 20
5-oz. can	25 cts., postpaid.....	35
12-oz. can	40 cts., postpaid.....	55
5-lb. can	\$2, postpaid.....	2 25

JAPANESE FERN AND PALM FOOD

GIVES SUCCESS WITH FERNS AND PALMS



Prepared Expressly for
FERNS, PALMS and RUBBER PLANTS

Safe, Sure and Quick-Acting. Producing luxuriant foliage of rich texture.

It is so evenly balanced that it can be used on anything that grows.

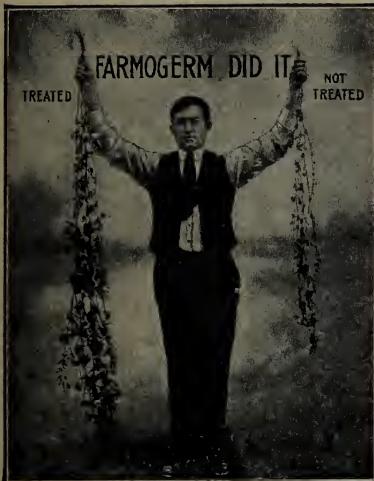


5-OZ. PACKAGE, 30 CTS., POSTPAID 35 CTS.

THE STANDARD INOCULATION

FARMOGERM

HIGH-BRED NITROGEN-GATHERING BACTERIA for
CLOVERS, ALFALFA, BEANS and OTHER LEGUMES



What Farmogerm Is

Farmogerm is a pure culture, or growth, of nitrogen-fixing bacteria that have been selected and bred up to transform large amounts of nitrogen from the air into soluble nitrates. These bacteria are grown in a jelly, or food, in which they remain active for long periods of time, and sent out in a bottle which admits the necessary supply of pure air, yet keeps out destructive contaminations. If alfalfa can be grown on the hot, sandy land of south New Jersey, why can't you grow it?

What Farmogerm Will Do

Unless the soil is very acid or wet, Farmogerm will:—

1. Increase the yield and quality of legume crops, giving quicker growth and earlier maturity.
2. Increase the food value of legumes.
3. Make legumes grow where they cannot otherwise be grown successfully.
4. Supply nitrates to other crops growing with the inoculated legume crop.
5. Enrich the soil for future crops, thereby increasing the permanent value of the farm. Better crops—better soil—less fertilizer—less labor.

Increased Crops are a well-established certainty in all instances where inoculations are used together with proper culture methods. Not only is the crop increased in weight—but in its richness. The United States Department of Agriculture, Bulletin No. 71, substantiates these statements. Why not increase your farm yields without extra labor and at practically no extra cost?

Fertilizer Values of well-inoculated legumes have long been determined. It is shown in Bulletin No. 71, issued by the United States Department of Agriculture that tests covering a large part of the country prove that legumes will deposit 1,000 lbs. of nitrate per acre. This means that your most expensive commercial fertilizer is absolutely unnecessary when you plant legumes, perfectly inoculated, sown and planted in properly prepared land.

Peas, Beans, Sweet Peas

Yield earlier, longer and better when treated with Farmogerm. Farmogerm is endorsed by farmers, Federal and State Agricultural Departments and private estates. It is delivered to you in bottles, ready for use. You can inoculate the seed for ten acres in ten minutes.

PRICES POSTPAID

Small Farm Size, 5 acres, \$8. Garden Size, 1/4 acre, 50 cts.
Trial Farm Size, 1 acre, \$2.

In ordering always state kind of seed to be inoculated



See That Air-Tube?

It supplies fresh nitrogen, without which the cultures will not live. When put up in sealed bottles they soon lose their vitality, becoming inactive. Farmogerm is guaranteed to retain its original vitality for years, and is the only preparation of its kind that is not sealed.

The cost is so small that no gardener or farmer can afford not to use it.

Use Farmogerm

FOR

Bush Beans
Pole Beans
Lima Beans
Soy Beans
Sweet Peas
Garden Peas
Field Peas
Cowpeas
Vetch
Alfalfa Clover
Red Clover
Alsike Clover
Sweet Clover
Crimson Clover

FERTILIZERS

What the Crop Needs. We need to bear in mind that the great object of fertilizing is to feed the crop and not to feed the soil, and in determining what the different crops need it is important to understand the purposes served by the different elements. We are all familiar with the fact that nitrogen, phosphoric acid and potash are the three critical or vital elements of plant-food. The functions or uses of these plant-food elements are as follows:

Uses or Purposes of Nitrogen. Nitrogen builds up the young tissues in the new and rapidly growing parts of the plant, and is one of the chief constituents of the living matter with which the minute plant-cells are filled. It increases the amount of protein, which is the muscle-making and strength-giving element of the plant when used as food. It promotes a healthy growth, gives a good green color to the foliage, and in general has a tendency to give a greatly increased growth of stems and leaves. Thus we see the necessity for using nitrogen in abundance on the grass crop, which is valued chiefly for its leaf and stem; also for such crops as lettuce and spinach, valued for their leaves, and it should also be used in abundance on crops where rapid new growth is essential, such as asparagus, rhubarb, tomatoes, etc.

Uses or Purposes of Phosphoric Acid. Phosphate of lime (consisting of phosphoric acid and lime) forms a large part of the

framework of plants, just as it forms the chief constituent of the bones of the human skeleton. Plants lacking phosphoric acid die before reaching maturity. Phosphoric acid also nourishes the seeds of the plant (where it is present in great abundance) and hastens the plant's growth to maturity. It is especially used in large amounts by plants belonging to the cabbage family, including cabbages, turnips, brussels sprouts, cauliflower, kale, rape and mustard, and also by cereal crops such as wheat, barley, rye, oats, etc.

Uses or Purposes of Potash. Potash is concerned especially with the formation of starch and sugar in plants and also with the development of the fleshy part of fruits, fruit juices, and fruit acids. It is of great importance to corn, potatoes, beets, tobacco, strawberries, grapes, apples, and also to the leguminous crops such as clover, alfalfa, peas, beans, etc. The reason for this is very evident when you reflect that the greater part of a kernel of corn is starch, and that a potato is made up very largely of starch and water.

In the manufacture of the following Fertilizers, all these important facts are carefully borne in mind, and it is our object to furnish our customers such Fertilizers as shall produce the largest crops at the least possible cost to the consumer.

E. Frank Coe's Fertilizers

1857 — The Business Farmer's Standard for Over 63 Years — 1920

Our organization has specialized for more than 63 years in the production of high-grade fertilizers particularly adapted to the soil and crop conditions in the northern states. There are 63 years of laboratory work, practical farm tests and thorough scientific knowledge behind every bag of E. Frank Coe's Fertilizers.

A large assortment of brands especially adapted to western Pennsylvania conditions is offered to the farmers in that section. Our Service Department will gladly recommend the brands which in their opinion will give you the greatest possible profit if you will indicate the type of soil on which you intend to plant and the crops which you wish to grow.

A series of helpful booklets is offered without charge, to interested farmers. The I. W. Scott Company, our western Pennsylvania agents, or our New York office will be pleased to furnish you with copies of any of the following books:

- "Corn: The Foundation of Profitable Farming"
- "Potatoes: A Money Crop"
- "Oat Production"
- "The Neglected Hay Crop"
- "Winter Wheat and Its Culture"
- "Better Vegetable Growing"
- "How to Get the Most Out of Fertilizer"

In the face of increasing labor costs, good farmers everywhere are planning this year to secure "a greater yield from every field." Our fertilizers can help you obtain this result. Write us about your problems.

THE COE-MORTIMER COMPANY
51 Chambers St., New York City

Gold Brand Excelsior Guano

For Market-gardeners. (3-8-4.)	
GUARANTEED ANALYSIS	Per cent
Nitrogen.....	2.47
Equal to Ammonia.....	3.00
Available Phosphoric Acid.....	8.00
Potash (actual).....	4.00

In 100-lb. bags

100 lbs.....	\$3 75	1,000 lbs....	\$31 50
500 lbs.....	16 25	2,000 lbs....	62 00

Prolific Crop-ProducerA high-grade Fertilizer for Truckers.
(4-10-0.)

GUARANTEED ANALYSIS	Per cent
Nitrogen.....	3.29
Equal to Ammonia.....	4.00
Available Phosphoric Acid.....	10.00

In 100-lb. bags

100 lbs.....	\$3 50	1,000 lbs....	\$29 00
500 lbs.....	15 00	2,000 lbs....	57 00

Columbian Corn and Potato

For corn and potatoes. (2-8-3.)

GUARANTEED ANALYSIS	Per cent
Nitrogen.....	1.65
Equal to Ammonia.....	2.00
Available Phosphoric Acid.....	8.00
Potash (actual).....	3.00

In 100-lb. bags

100 lbs.....	\$3 25	1,000 lbs....	\$27 00
500 lbs.....	14 00	2,000 lbs....	53 00

**Pennsylvania Grain Special
No. 1**

For wheat, rye and oats. (1-10-1.)

GUARANTEED ANALYSIS	Per cent
Nitrogen.....	.82
Equal to Ammonia.....	1.00
Available Phosphoric Acid.....	10.00
Potash (actual).....	1.00

In 100-lb. bags

100 lbs.....	\$2 60	1,000 lbs....	\$21 50
500 lbs.....	11 25	2,000 lbs....	42 00

16 Per Cent Acid Phosphate

Sixteen per cent available phosphoric acid. Very quick-acting and permanent.

In 200-lb. bags

100 lbs.....	\$2 00	1,000 lbs....	\$16 50
200 lbs.....	3 70	2,000 lbs....	32 00
600 lbs.....	10 50		

Daybreak Rock Phosphate

The name Daybreak means superior quality, and it contains a minimum of 32 per cent phosphoric acid, and a fineness of 95 per cent through 10,000 openings to the square inch. 100 lbs., \$1.75; 200 lbs., \$2.95; 600 lbs., \$7.10; 1,000 lbs., \$11.50; 2,000 lbs., \$22. Prices by the carload quoted on request.

Muriate of PotashImported, guaranteed 49 per cent K₂O.

1 lb.....	\$0 35	10 lbs.....	\$2 00
5 lbs.....	1 25	100 lbs.....	9 50

FERTILIZERS, continued**Bone Meal Fertilizer**

(Formerly "Pure Raw Bone Meal")

We guarantee this brand to be manufactured strictly from slaughter-house bone.

GUARANTEED ANALYSIS	Per cent
Ammonia.....	4.50
Phosphoric Acid.....	21.00
Equal to Bone Phos.....	45.88

In 100-lb. bags

100 lbs.....	\$2 75	1,000 lbs....	\$23 50
500 lbs.....	12 25	2,000 lbs....	46 00

Lawn and Greenhouse Bone Meal

Pure; ground very fine. Especially adapted for greenhouses and lawns. Made from selected bones.

GUARANTEED ANALYSIS	Per cent
Ammonia.....	4.50
Phosphoric Acid.....	22.00
Equal to Bone Phos.....	48.07

In 100-lb. bags

25 lbs.....	\$1 25	500 lbs....	\$13 00
50 lbs.....	2 00	1,000 lbs....	25 00
100 lbs.....	3 00	2,000 lbs....	49 00

Nitrate of Soda

Fifteen per cent nitrogen, equivalent to over 18 per cent ammonia. 1 lb. 30 cts., 5 lbs. \$1, 10 lbs. \$1.50.

In 200-lb. bags

100 lbs.....	\$5 50	1,000 lbs....	\$40 00
200 lbs.....	10 00	2,000 lbs....	80 00
600 lbs.....	27 00		

Wizard Brand Pulverized Sheep Manure

This is the strongest and best natural Fertilizer for lawns and gardens, vegetable- and fruit-growing. The raw material is the richest manure obtainable, carefully selected and treated to destroy weed seeds and also to produce a highly concentrated, reliable Fertilizer.

5 lbs.....	\$0 25	100 lbs....	\$2 50
10 lbs.....	45	500 lbs....	10 75
25 lbs.....	85	1,000 lbs....	20 50
50 lbs.....	1 40	2,000 lbs....	40 00

Unleached Hardwood Ashes

A proper and liberal use of good Hardwood Ashes will restore worn-out lands to prime fertility, preserve grasslands through severe drought, and give trees, plants and vines renewed vigor. They purify and strengthen the soil and help to eradicate noxious weeds from grass lands. They also prevent ravages of insects on plants and trees, increase the yield and quality of fruit, improve the flavor of berries, strengthen vines, and are indispensable in the growth of all crops which take large quantities of potash from the soil. Practical farmers tell us that unleached Wood-Ashes are worth at least double their analyzed value. 1 bbl., 200 lbs., \$3; 5 bbls., 1,000 lbs., \$13.50; 10 bbls., 2,000 lbs. \$26. Special prices on carload lots.



The Original Odorless Liquid Fertilizer

Nitro-Fertile is a complete plant food, containing all the elements required for plant growth, that can be put into the soil, and will sustain the growth it makes. This liquid fertilizer does not deteriorate, has no odor or other offensive features, and, goes straight to the hungry roots. It is a safe, clean, and very valuable plant food, especially adapted to house plants, flowers, lawns, vegetable gardens, shrubbery, and trees. Before being used, it is diluted with water in the proportion of one quart to thirty gallons of water.

Half-pint.....	\$0 35	Half-gallon.....	\$1 75
Pint.....	60	Gallon.....	3 00
Quart.....	1 00		



Lime-Fertile is composed of high-grade phosphate rock and ground limestone, both finely ground and inoculated with high-bred nitrogen-gathering bacteria. It sweetens the soil and enriches it with life-giving bacteria and either directly or indirectly supplies all the elements of a complete fertilizer. It revives and enriches poor run-down soil.

5 lbs.....	\$0 25	500 lbs....	\$9 50
25 lbs.....	75	1,000 lbs....	18 00
100 lbs.....	2 00	2,000 lbs....	35 00

Nitraco

Nitraco has been evolved after years of study of the fertilizer business and the demands of the gardening public, and is designed to be the most perfect and complete fertilizer placed upon the market. It is so compounded that it may be termed the "universal fertilizer," and can be applied with safety to any soil in any climate, to "anything that grows."

ANALYSIS	Per cent
Ammonia.....	4.00
Phosphoric Acid.....	8.00
Potash.....	2.00
1-lb. 30 cts., 5 lbs.	75 cts.
10-lb. bags.....	\$1 50
25-lb. bags.....	2 50
50-lb. bags.....	4 50
100-lb. bags.....	6 00

Prices on this page are f. o. b. cars Pittsburgh. On account of the uncertainty of the supply of raw materials, all prices are subject to change (higher or lower). Special prices will be quoted on ton orders and upward for March shipment.

LAWNGRO

(LAWN ENRICHER)

A high-grade chemical fertilizer for new and old lawns, putting and fair greens, terraces, etc.

GUARANTEED ANALYSIS	Per cent
Nitrogen.....	3.29
Ammonia.....	4.00
Available Phosphoric Acid.....	8.00

See page 50 for House Plant Fertilizers

FERTILIZERS, continued

Lawngro is not unsightly and soon disappears. The effect on the grass is very apparent in a few days.

Lawngro for new lawns should be applied broadcast at the rate of three to four pounds per 100 square feet. Rake in thoroughly. For old lawns apply two to three pounds per 100 square feet.

Apply during rainy weather if possible—in any event water in.

5 lbs.....	\$0 75	50 lbs.....	\$3 75
10 lbs.....	1 25	100 lbs.....	5 50
25 lbs.....	2 25		

Thomasville Ground Limestone

We claim that Thomasville Ground Limestone is the best on the market, on account of its unusual softness which makes it very soluble. Also because it runs uniform, never falling below 97 per cent carbonates of lime.

Write for sample and descriptive circular.

Carload—20 tons, or upward, in bulk, per ton, f. o. b. quarry, \$3.

Less than carload lots, in sacks, f. o. b. cars, Pittsburgh, quoted on request.

INSECTICIDES

The Insecticides and machines for applying the same, described in this catalogue, are not novelties in the experimental stage, but have been thoroughly tested and found reliable for the uses for which they are intended.

Customers using large quantities of Insecticides are requested to write to us for special prices specifying the quantities wanted. Prices quoted are subject to change.

Grasselli's Arsenate of Lead Paste

Arsenate of Lead is a neutral insecticide. It destroys all leaf-eating insects, will not be washed off by rains and will not burn the most delicate foliage. Contains 15 per cent arsenic oxide and 35 per cent lead oxide, thus assuring customers of a very superior grade of effective poison, conforming in quality to the new insecticide law. 1-lb. can 40 cts., 5-lb. keg \$1.75, 10-lb. keg \$2.75, 20-lb. keg \$4.75, 50-lb. keg \$10, 100-lb. keg \$18, 300-lb. bbl. \$50.

Grasselli's Arsenate of Lead Powder

This product may be mixed with water and applied as a liquid spray, or it may be used as a dust spray. If used in the dust form, it may be applied as received, by finely dusting on the foliage, or it may be mixed with an equal bulk of freshly burned wood ashes or powdered lime. $\frac{1}{2}$ lb. 35 cts., lb. 60 cts., 5 lbs. \$2.50, 10 lbs. \$4.50, 20 lbs. \$8, 50 lbs. \$17.50, 100 lbs. \$33, 200 lbs. \$65.

Bowker's Pyrox

The one best spray. "Fills the barrel with the apples they used to put on top." The best and safest all-round spray for killing all forms of leaf-eating insects, including the codling moth and the potato bug, and preventing attacks of fungous troubles and blight. It does not injure fruit or foliage, and is equally good on apple trees, potatoes, garden vegetables and shrubbery. It "sticks like paint, and rain will not wash it off." Lb. 40 cts., 5 lbs. \$1.75, 10 lbs. \$3, 25 lbs. \$6.25, 50 lbs. \$11, 100 lbs. \$20, 300 lbs. \$57.

Grasselli's Lime and Sulphur Solution

This will, if not exposed to the air, remain in solution a long time. Will not clog the spray pumps, because it is free from sediment. Does not have to be applied hot, because it remains in solution.

FOR FALL AND EARLY SPRING SPRAY

To destroy San José scale, peach leaf curl (apply just before buds burst), bud moth, apple aphid, blister mite, peach worm, any scale insects or bark lice, etc., mix one gallon Grasselli's Lime and Sulphur Solution with each seven to nine gallons of water.

FOR SUMMER SPRAY

For apple scab, leaf spot, and all fungous diseases on apples and pears, use one gallon to thirty-three gallons of water. For peach rot and scab, use one and one-quarter to one and one-half gallons to one hundred gallons of water.

Qt. 35 cts., 1-gal. can 75 cts., 5-gal. can \$2.50, 25 gals. (half bbl.) per gal. 31 cts.; 50-gal. bbl. per gal. 28 cts.

Commercial Flour Sulphur

For use in making lime-sulphur solution and for dusting. 1 lb. 10 cts., 5 lbs. 40 cts., 10 lbs. 60 cts., 25 lbs. \$1.25, 50 lbs. \$2, 100 lbs. \$3.50, 500 lbs. \$16.25, 1,000 lbs. and up at 3 cts. per lb.

Scalecide

The standard soluble or miscible oil spray for San José scale and all soft-bodied sucking insects. Scalecide should be applied in the fall of the year just after the leaves drop, any pleasant day during the winter when water will not freeze, or just before the leaves and buds begin to open in the spring. Qt. 60 cts., gal. \$1.50, 5 gals. \$6, 10 gals. \$11.50, 30-gal. jacked tin \$28, 50-gal. bbl. \$43.

Bordeaux Mixture Paste

Preventive of blight on potato, celery plants, etc. For fungous diseases on nursery stock, rust, molds, leaf spot, leaf blight, mildew, black and brown rot, in fact, all fungous diseases. 1-lb. can 40 cts., 5-lb. keg \$1.75, 10-lb. keg \$2.75, 20-lb. keg, \$4.50, 50-lb. keg \$9.50, 100-lb. keg, \$16.50.

Dry Bordeaux Mixture and Paris Green Compound

To be diluted with lime dust. Cheaper than paris green, it kills the bugs, and defends against flea beetles and blight. 35-lb. bucket \$7.

Lemon Oil

For mealy bug, brown and white scale on palms and rubber plants, thrip, red spider, caterpillar, black and green fly, fleas and skin diseases on dogs and other animals, and insects in poultry houses. $\frac{1}{2}$ pt. 30 cts., pt. 50 cts., qt. 90 cts., gal. \$2.50.

Sulfocide

For all fungous diseases of cucumbers, squash, melons, celery, potatoes, tomatoes, eggplant, beans, hollyhocks, carnations, chrysanthemums, roses, etc. Gal. \$3, 5 gals. \$9.50.

Carco Vegetable Spray

Kills maggots infesting cabbage, onions, turnips, cauliflower, beets, radishes, etc. The spray is easily applied. Simply add the necessary water and stir. It emulsifies freely and will not settle. Apply with an ordinary hand sprinkler, as this is much better than an atomizer or pump-spray. It has proved a remarkable success in increasing the yield of cabbage, cauliflower, turnips, radishes, onions, beans, beets, etc. Pt. 65 cts., qt. \$1 $\frac{1}{2}$ gal. \$1.50, gal. \$2.50.



Pat. March 16 and Nov. 9, 1897.
Pat. in Canada Nov. 2, 1897,
and Jan. 25, 1900.

Bug Death

Prevents Blight and Kills Bugs

The favorite among truckers and gardeners the past twenty years. It can be applied dry or in solution as desired. Just what is needed for melons, cucumbers, eggplant, currants, tomatoes, potatoes, etc.

1-lb. pkg.	\$0 20
3-lb. pkg.	45
5-lb. pkg.	60
12½-lb. pkg.	1 35
100-lb. pkg.	8 50

Bug Death Aphis

A new companion preparation to regular Bug Death, especially for Sucking Insects, Lice and Aphis, and particularly for use on Fruit Trees, Berry Bushes, Grape Vines, House Plants. Likewise a fine, tenacious powder, applied dry or in water. Ready for use in dust form just as it comes in the package. No Paris Green or Arsenic. Used by Practical Growers the past two seasons with complete success.

12-oz. pkg.	\$0 20
80-lb. keg.	8 00

Hammond's Slug Shot

A light, composite, fine powder, easily distributed either by duster, bellows, or in water by spraying. Thoroughly reliable in killing currant worms, potato bugs, cabbage worms, chicken-lice, slugs, sow bugs, etc., and it is strongly impregnated with fungicides.

1-lb. pkg.	\$0 15
5-lb. pkg.	45
25 lbs., in 5-lb. pkgs.	2 10

Nikoteen, for Spraying

Purest and most economical. Death to aphis or green fly, thrip and many other forms of flower, fruit and vegetable lice. 30 per cent strength, 1 oz. 35 cts., 1¼ oz. 55 cts., ½ lb. \$1.10, lb. \$2, 4 lbs. \$7, 8 lbs. \$13.

Strictly Pure Paris Green

½lb. box 20 cts., ½lb. box 35 cts., 1-lb. box 60 cts., 5 lbs.	\$2.75
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INSECTICIDES, continued

Black Leaf 40

Solution of nicotine sulphate, guaranteed to contain 40 per cent nicotine. 1-oz. bottle 25 cts., ½-lb. can \$1, 2-lb. can \$3.25, 10-lb. can \$13.75.

Pure Powdered Hellebore

For destroying insects on plants, currant bushes, etc. ½lb. box 20 cts., ½lb. box 35 cts., 1-lb. box 65 cts.

Aphine

The recognized standard Insecticide for plant lice of all descriptions. It is universally used by commercial growers and private gardeners against green, black and white thrips, red spider, mealy bug, soft scale and all sap-sucking and soft-bodied insects. It is applied as a spray, dip or wash, by mixing with water. Equally effective for house and garden plants, flowers, fruits and vegetables. Gill 25 cts., ½pt. 40 cts., pt. 65 cts., qt. \$1, gal. \$3.

Fungine

A sulphur composition in solution, and is an infallible remedy for mildew, rust, wilt, bench rot and other blights which affect flowers, fruits, and vegetables. It is equally effective under glass and out-of-doors. It dilutes readily with water; contains no sediment; and, unlike bordeaux and lime and sulphur, does not stain but cleanses the foliage. One gallon makes fifty gallons of spraying material. ½pt. 40 cts., pt. 65 cts., qt. \$1, gal. \$3.

Vermine

A vermicide and soil sterilizer which will destroy cut-, eel-, wire-and grubworms, slugs, root lice and ants. Used in the greenhouse, garden and field. Apply one gallon of Vermine to four hundred gallons of water, by thoroughly soaking the ground. It will do its work effectively without injury to vegetation, and protect your crops and lawns against ravages under the soil. Gill 25 cts., ½pt. 40 cts., pt. 65 cts., qt. \$1, gal. \$3.

Whale-Oil Soap

With tobacco. For destroying insects on plants and trees. 1-lb. box 30 cts., 5 lbs. \$1.25.

Formaldehyde

To prevent grain smut, oat anthracnose, wheat stinking smut, potato scab, black leg, lettuce rosette and rot, cabbage, brown or black rot, club root, fusarium wilt, onion smut, smudge and rot. 1-lb. bottle 45 cts., 60-lb. keg \$17.

Ask for booklet on the use of Formaldehyde on the farm and in the home.

Aphis Punk, for Fumigating

Specially prepared for greenhouses and conservatories. It vaporizes the nicotine economically and evenly. Nothing keeps a house free from aphis, thrip and other plant parasites so thoroughly and cheaply. Case of 1 doz. air-tight containers, 1 doz. sheets each, \$8.50. 1 doz. sheets, in airtight packages, 75 cts.

Tobacco Dust

Lb. 10 cts., 5 lbs. 30 cts., 10 lbs. 50 cts., 50 lbs. \$1.50, 100 lbs. \$2.50.
Powdered Tobacco 25 cts. per lb.

Tobacco Stems

Bale (about 90 lbs.) \$2, 3 bales \$5.25, 10 bales \$15.

Copper Sulphate (Blue Vitriol)

Lb. 25 cts., 5 lbs. \$1, 10 lbs. \$1.80, 50 lbs. \$8.
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Sporicide

For exterminating smut in grain and scab on potatoes. Sporicide is the result of careful and intelligent tests for several years. It increases the yield, strengthens the stock, increases the value of the straw, and does away with the poisonous dust in threshing and stock-feeding. It is simple in treatment and application and the results are positive and effectual. A pint bottle will treat 40 bushels of oats, and for potatoes the same quantity is used with 30 gallons of water. Sporicide is also used with good results on barley and wheat. Pint bottle, \$2.

Tree Wound Paint

Should follow all pruning operations. All pruned areas need attention. Neglect means decay! "Electro" Tree-Wound Paint is the one ideal material, embodying all the qualities required in tree-surgery operations—antiseptic and penetrating, forming a lasting, waterproof coating which does not injure or interfere with the growth or healing of the wound. Qt. 55 cts., postpaid 65 cts.; gal. \$1.75, 5 gals. \$6, 10 gals. \$10.

Grafting Wax

For grafting or for cuts and bruises on trees. ½lb. pkg. 25 cts., 1-lb. pkg. 40 cts.

Tree Tanglefoot

A sticky preparation similar to the substance used on fly-paper. It is applied directly to tree trunks with a wooden paddle. One pound makes 8 to 9 lineal feet of band. Will not injure trees. No mixing, always ready for use. Lb. can 50 cts. (postpaid 55 cts.); 3-lb. can \$1.45 (postpaid \$1.55); 10-lb. can \$4.50 (postpaid \$4.70); 20-lb. can \$8.75 (postpaid \$9).

INSECTICIDES, continued

Hammond's Weed Killer

Hammond's Weed Killer has been in use for many years, and has held a useful place in all tidy towns to prevent the growth of weeds along gutters, paths or tennis-courts, also to prevent the growth of wild ivy. Wild ivy in some parts is very annoying, and a dilution of one part of Weed Killer to thirty parts of water, poured from a watering-pot around the roots, will destroy them. Any place that it is desired to keep clean and free from any growth can be kept tidy for a whole season by one application of this preparation. The weaker the dilution on strong, heavy weeds the quicker it acts, and the effect will last a whole season. Of course, stray seeds will be scattered and come up probably. This

Weed Killer will, naturally, kill any kind of grass without distinction, so it must be used cautiously where the grass is desired. Qt. 65 cts., gal. \$1.50, 5 gals. \$6.25, 10 gals. \$11.

Our POULTRY SUPPLY Department includes a full line of the latest improved requisites for Poultry Raising and Egg Production, including an unsurpassed line of poultry feeds. These are fully described in our 76-page Poultry Supply Catalogue, which will be mailed free on request.

SPRAYERS AND DUSTERS**Lowell Powder Duster**

It is unnecessary to give the details of the mechanical construction of the Duster, as we give a positive guarantee with each that it is impossible to draw powder back into the cylinder pump, and if the powder is sifted through a screen and kept absolutely dry, it will be impossible for it to clog. With these features covered, the Duster is sure to give satisfaction. The powder-can holds one quart. Weight, packed, 2 pounds, 75 cts.; postpaid, 85 cts.



Weight, packed, 2 lbs.
75 cts.

Dickey Duster

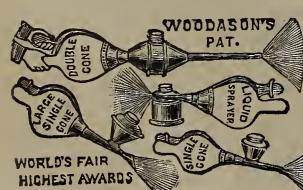
For use in applying dry insecticides to small flower- or vegetable-gardens. 50 cts.; postpaid, 55 cts.

**The Bug Death Duster**

This Sifter is for applying any quantity or variety of dry insecticide on potatoes, melons, cucumbers, cabbages, cauliflower, etc., such as land plaster, or lime mixed with paris green or arsenate of lead, or any of the numerous manufactured varieties. It is conceded by all who have knowledge of the Sifter, to be the fastest, easiest, cheapest, and only implement made that will cover large vines, using any of the dry mixtures, as fast as a man can walk. 75 cts.; postpaid, 85 cts.

**Woodason's Powder and Liquid Spraying Apparatus**

For the destruction of insects, rust, smut, mildew, blight, rot, etc., in houses, gardens, orchards or fields.

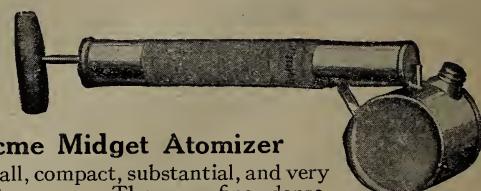


Single-cone Insect Powder Bellows. Will last a lifetime; never fails completely to destroy bed-bugs, roaches, mosquitos, flies, fleas on dogs, lice on birds, animals, plants, etc. Being strong, it blows the powder well behind the woodwork and into the cracks where the insects breed in houses, hotels, camps, henries, greenhouses, hospitals, schools, jails, police stations, asylums, poorhouses, etc. Single-cone powder bellows, small size, \$2.25; large size, \$3.75. Liquid-spraying bellows, small size, \$3, large size, \$4.

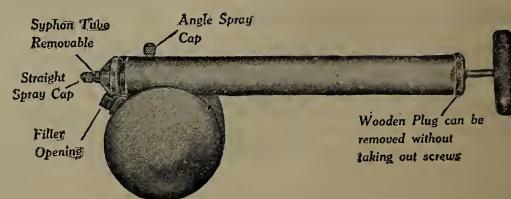
WORLD'S FAIR HIGHEST AWARDS

**Acme Single Powder Gun**

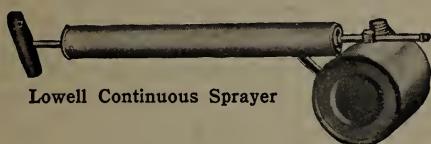
Consists of a tight, valveless bellows equipped with a distributing tube, or nozzle, a funnel, a spreader for diffusing the spray, and an elbow for placing the spray on the under side of the leaves. Handles of convenient length; bellows of fine russet leather. A practical, efficient method of applying the principles of dry spraying by hand, at a reasonable price. \$1.50.

**Acme Midget Atomizer**

A small, compact, substantial, and very efficient sprayer. Throws a fine, dense, uniform spray, and is an indispensable aid to the florist and housewife. Made of charcoal tin plate. Capacity, 1 pint. 35 cts.

**Auto-Spray No. 25****Continuous Sprayer. Will Handle All Solutions**

The entire front is removable by unscrewing the front cap, permitting the siphon tube to be withdrawn should it become clogged. Fitted with 2 spray caps, one straight, the other at an angle for reaching the under side of broad leaves. Will spray with tank at any angle. Solution does not come in contact with pump cylinder. Weight packed, 2 pounds. No. 25-A, tin reservoir \$1; No. 25-B, galvanized reservoir, \$1.25; No. 25-C, brass reservoir, \$1.50; No. 25-D, galvanized 2-quart reservoir, \$1.50.



Lowell Continuous Sprayer

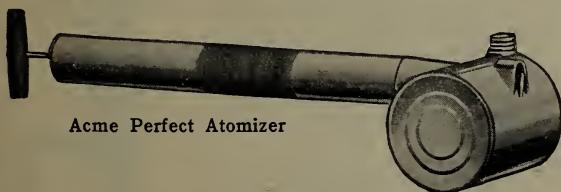
Lowell Continuous Sprayer
The Lowell Continuous Sprayer, as the name implies, is so constructed that it not only sprays on the downward stroke of plunger, but also when it is drawn back, thus causing a continuous mist-like spray. You can get into the cracks with this Sprayer. Capacity, one quart. Tin, weight, packed, 2 pounds, 85 cts.; brass, \$1.40. Postage, 15 cts.



Lowell Grand Sprayer,
Weight, packed, 3 lbs. Tin,
55 cts.; brass, \$1.25.
Postage, 10 cts.

Lowell Grand Sprayer

It has an air-chamber in the end of the pump-tube that prevents any moisture being drawn back on the valves. Strong, durable and satisfactory; will spray up as well as down.



Acme Perfect Atomizer

Acme Perfect Atomizer

Made of good heavy tin plate, gives a fine dense spray and fills the demand for a strong substantially constructed sprayer. Capacity one quart. 50 cts.; postpaid, 60 cts.

Acme Compressed-Air Sprayer

This is truly "the acme of perfection," in Compressed-Air Sprayers. Well adapted for the farmer, stockman, fruit-grower, poultryman, and florist. Has a strong steel or brass tank tested to 60 pounds air-pressure and a brass pump seat with bronze ball check valve, easily removed for cleaning. Seamless brass cylinder $1\frac{3}{4}$ inches in diameter, coppered plunger rod, quick-acting, efficient plunger 14 inches long. Nozzle solid brass, with spring of phosphor-bronze which will not corrode. Absolutely non-clogging, as the spiral point cleans out the cap at every operation. By this special feature the spray takes a whirling motion, thus forming a very fine spray, atomizing it thoroughly.

Spray covers evenly, leaving no blank space in the center, as is the case with other Sprayers. Sprayer is under perfect automatic control and, due to the exceptionally fine spray, saves time and material. Nozzle interchangeable, and can be taken apart and reassembled in a few seconds. Convenient shoulder strap attached to the tank with snaps. With galvanized steel tank.....\$7.00
With brass tank.....9.50
2-foot brass extension pipe extra.....1.00

**Acme Cyclone Atomizer**

A special feature of this sprayer is the funnel mouth on air tube for directing the spray, a desirable feature in spraying fly-repellent on horses, cattle, etc. Made of heavy bright tin plate. Capacity five pints. 55 cts.; postpaid, 65 cts.

The No. 296 Pneumatic Compressed Air Sprayer

With Self-Locking D-Handle and Screw Top
With Adjustable Long Distance Spray Nozzle



It is made of heavy galvanized iron with $1\frac{3}{4}$ inch brass tube cylinder attached to the can by means of a heavy brass screw nut. The small diameter cylinder operates easier than larger sizes. The nut is operated by lugs on the lower part of the handle, which engage in opening at the top of the nut. By means of these lugs and handle the nut can be screwed tightly to the top of the tank, and at the same time lock the plunger in position which also permits of the tank being carried by the handle when desired. We have done away with the large butterfly nuts as used on others, which are very objectionable features owing to the fact that it is not only difficult to screw the cap perfectly tight but also very injurious to the hands in pumping. The handle is D-shaped in form, and large enough to be operated by anyone with perfect comfort. The nozzle is one of the special features of this Sprayer.

By means of the small lever the spray can be adjusted from a broad fine spray, covering the ordinary distance into a complete long distance spray throwing water 25 feet, by means of which the tops of any ordinary fruit tree can be reached. Complete, with long distance nozzle \$7.50.

Auto-Spray No. 1

The Auto-Spray No. 1 is the best compressed-air Sprayer made. The pump is locked air-tight to the tank by a simple sliding cam. There is no screw connection to wear out or become leaky. Every part is immediately accessible and easily replaced. Each machine is fitted with 2 feet of $\frac{1}{2}$ -inch hose, fine spray nozzle, solid-stream cap and either stop-cock or our popular automatic shut-off, as ordered.

No. 1-B, brass tank, with
Auto-Pop. Weight 18 lbs. \$11.00
No. 1-D, galvanized tank with
Auto-Pop. Weight 18 lbs. 7.25
Brass extension. 2 ft. Weight
2 lbs.....60
Brass strainer. Weight 1 lb.. 1.20



The Binks No. 22 Universal Sprayer

We guarantee this Sprayer to be made of heavier metal, better material, and to operate at a higher pressure than any similar type made. It consists of a well-made galvanized steel tank, 20 inches high, 7 inches in diameter, having a capacity of four gallons, and a strong, self-contained all-brass air pump. After the machine is filled within 3 or 4 inches from the top with spraying fluid, simply pump thirty or forty long strokes with the pump and you are ready for spraying. Furnished complete in galvanized steel with 3 feet of discharge hose, spray-nozzle and shut-off cock, with shoulder-strap for carrying. Weight, packed, 15 lbs. \$7. Brass, \$12.



Auto-Spray No. 5



The Same Spray With Half The Labor

This pump is the ideal all-purpose hand-sprayer. Its field is practically unlimited, as it may be used for spraying trees, vines, garden truck, potatoes and any field crops, and for handling whitewash and disinfectants.

It is made entirely of brass, doing away with all danger of corrosion.

The pump is double acting. This feature makes the spray continuous.

In an actual test this pump generated a pressure of 180 pounds per square inch, with ordinary effort.

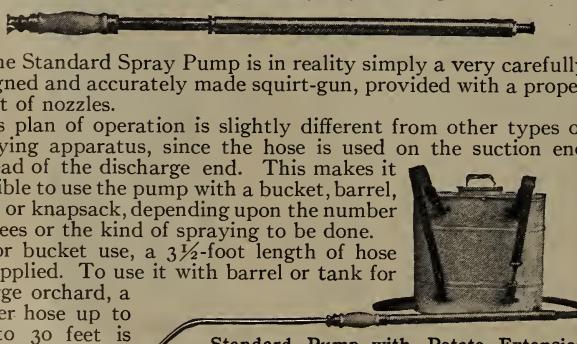
The pump itself is so constructed that it can be taken apart instantly.

We furnish with this pump 3½ feet of ¾-inch suction hose and a heavy strainer that keeps the hose from working out of a bucket or tank.

PRICES

Auto-Spray No. 5, pump, hose, nozzle and strainer complete.....	\$5 00	Postpaid \$5 15
Extension.....	60	70
Galvanized iron reservoir (for use on potatoes or field crops).....	3 50	

The Standard Spray Pump



Standard Pump with Potato Extension and No. 3 Nozzle, Attached to Knapsack

The Standard Spray Pump, continued

young or scattered trees or truck crops, such as potatoes, tobacco, etc., the knapsack and short extension are used. With these attachments the Standard will spray potatoes one row at a time at the rate of an acre an hour or better.

The Standard is provided with a set of three nozzles.

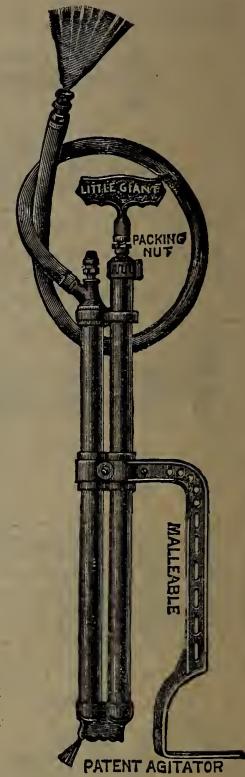
The Standard is made entirely of brass; no leather packings; no iron casting to rust or decay; nothing to get out of order. The Standard, with 3½-foot hose and full set of nozzles... \$4 75
Knapsack, with attachments for above..... 3 00
Extensions, 19 inches long, each..... 80
Extra hose, per foot..... 20

Little Giant Sprayer

This Spray Pump is constructed entirely of brass. It is so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up. The effect of this operation while pumping is to hold the pump down. The foot-rest steadies the pump, holding it in proper position.

It is provided with a large air chamber, and has brass ball valves and detachable hose. The nozzle throws a continuous spray and is not affected by the movement of the plunger. Will carry a pressure on the nozzle of from 50 to 100 pounds with very ordinary exertion. For spraying, it is arranged to discharge a fine jet in the bottom of the bucket to keep the solution thoroughly mixed and agitated, a feature peculiar to this pump only, and a very necessary feature to a Spray Pump.

Little Giant Brass Spray Pump, with agitator, complete with hose and Imperial combination fine- and coarse-spray and solid-stream nozzle, with malleable foot-rest, \$4.75; postpaid, \$5.

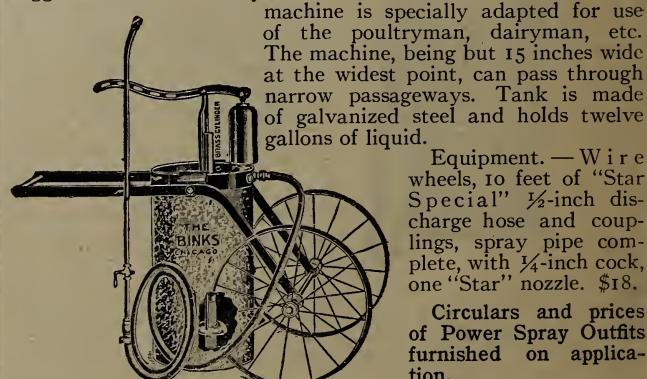


Little Giant Sprayer

The Binks No. 21 Sprayer

Our No. 21 machine is the latest general-purpose spraying machine on the market today. Strongly made of the best possible materials that are as light as is consistent with strength, and, owing to its portability, will suggest itself for many uses. The

machine is specially adapted for use of the poultryman, dairyman, etc. The machine, being but 15 inches wide at the widest point, can pass through narrow passageways. Tank is made of galvanized steel and holds twelve gallons of liquid.



Equipment. — Wire wheels, 10 feet of "Star Special" ½-inch discharge hose and couplings, spray pipe complete, with ¼-inch cock, one "Star" nozzle. \$18.

Circulars and prices of Power Spray Outfits furnished on application.

We issue a special catalogue of Farm Machinery and Implements, and shall be glad to send a copy on request to anyone interested.

Auto-Spray No. 24**ORCHARD SPRAYER**

This is our most popular Barrel Spray Pump, and is recommended to those who require a Sprayer of exceptional capacity and durability. A constant high pressure can be maintained with little or no exertion, and one man can operate this pump without fatigue.

The working parts and valves are made of brass throughout and fully exposed. The agitator and small drip-cock for cleaning out the pump cylinder are the only parts located in the barrel.

The plunger is made of brass, 2 inches in diameter, with slightly over a 4-inch stroke. The pump is fitted with what is called outside packing (graphite) which can be adjusted or replaced by simply unscrewing two nuts. The pump cylinder, base and air-chamber are

cast in one solid piece, giving perfect alignment. The air-chamber is large, and insures a steady, constant pressure.

The cost of this machine is no indication of inferiority, and on account of its outside packing and exposed valves would be cheap at almost any price, as compared with pumps not so constructed.

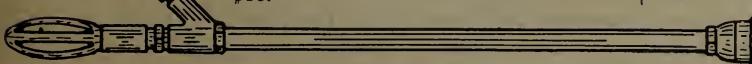
We warrant the Auto-Spray No. 24 to operate as many as four nozzles if required, though we always recommend one of our large Non-Clog Atomic nozzles.

Mounted on side of new barrel, with one 20-foot lead of $\frac{1}{2}$ -inch discharge hose, one 9-foot Bamboo, brass-lined extension, brass Non-Clog Atomic Nozzle..... \$45 00
Same equipment, mounted on top of barrel..... 42 00
Four-row potato attachment, complete with nozzles. Extra 14 00

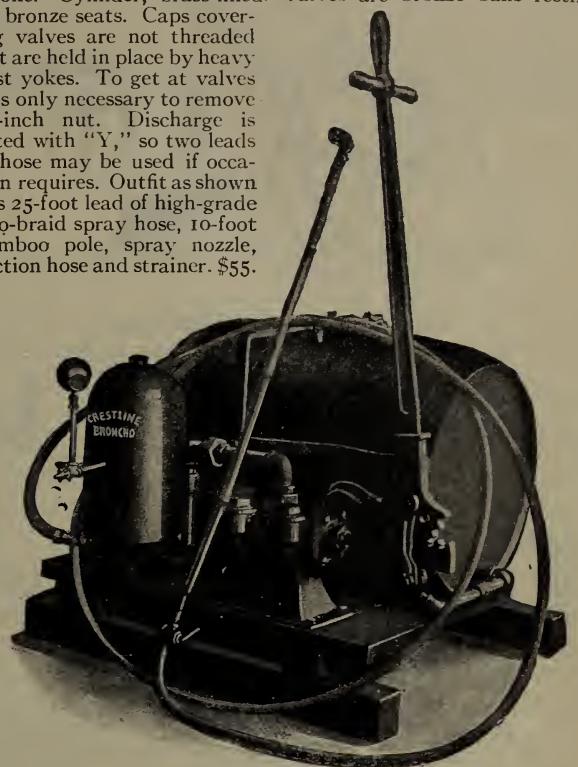
**Ideal Knapsack Spray Pump**

The Ideal Spray Pump and Fire Extinguisher is constructed entirely of brass, with brass ball valves and wood hand-holds. The plunger and all parts can be instantly removed for repairs or cleaning. It is a vast improvement over any Pump of this class.

When desired, the Pump can be detached from the Knapsack and used in connection with an ordinary pail or attached to a 50-foot length of garden hose, the opposite end of which is placed in a barrel of water or cistern. Complete, with Knapsack, \$10.

**The Bean Giant Pilot Spray Gun****The Broncho**

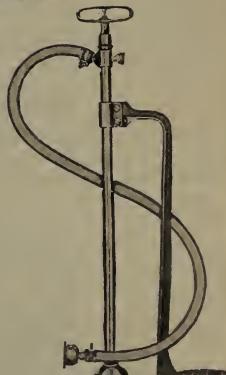
The Broncho Double-acting Spray Pump is a perfect outfit, and will satisfy the most exacting fruit-grower. Mounted on heavy skids, compact and powerful, built low down, it is the ideal outfit for hilly country. Pump has automatic agitator, with brush on same that passes over intake brass strainer with every stroke. Cylinder, brass-lined. Valves are bronze balls resting on bronze seats. Caps covering valves are not threaded but are held in place by heavy cast yokes. To get at valves it is only necessary to remove $\frac{3}{4}$ -inch nut. Discharge is fitted with "Y," so two leads of hose may be used if occasion requires. Outfit as shown has 25-foot lead of high-grade two-braid spray hose, 10-foot bamboo pole, spray nozzle, suction hose and strainer. \$55.

**Auto-Spray No. 6, Bucket Sprayer**

Sprays perfectly on both the up and down strokes, and requires only about one-half the energy required to operate an ordinary Pump. Produces a continuous spray. Equipped with a brass suction strainer as well as the strainer in the nozzle, making a double protection against clogging. Pump and valves made entirely of brass and equipped with 3 feet of extra quality hose and two nozzles, one for solid stream, the other for a fine mist spray. \$5.

The Bean Giant Pilot Spray Gun

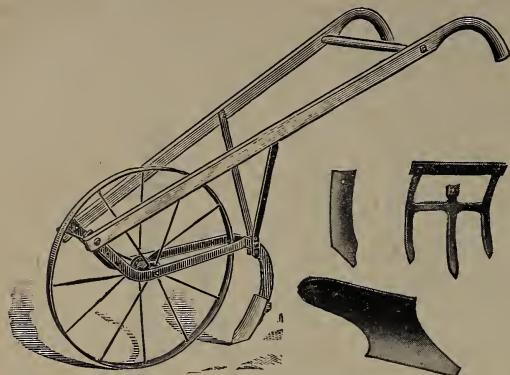
This Spray Gun is now so commonly used that little need be said about its value to the orchardist. Perhaps the most important of its advantages are that it saves at least half of the labor, and it makes a better job, especially on the large, high trees. It does effective spraying at long range, putting a fine spray on top of the trees as well as on the lower parts. The Bean Giant Pilot Spray Gun is furnished complete with five different-sized extra discs, extra rubber washer and packing, and $\frac{1}{4}$ -inch hose connection. Ask for special circular. \$10.



The Bean Giant Pilot Gun does it Right and means

Effective Spraying at Any Distance

GARDEN AND LAWN SUPPLIES



The Star Garden Cultivator AN ADMIRABLE TOOL FOR THE GARDEN

The shape of the beam and its attachment to the wheel and handles, over and forward of the center of the wheel, gives it great power. It is noted for its light draft and the great amount of work it will do. Built of steel throughout, except the handles, which are of selected hardwood. With attachments shown in cut. \$4.

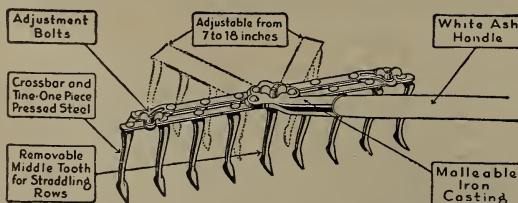
5-Prong Attachment

New "5-Prong" Attachment for "Star" Garden Plow. Can also be used on other makes of garden plows of same general type. By means of this attachment you are able to cultivate the soil in proper manner and the weeds will have absolutely no chance to sprout. The middle prong is often removed and rows straddled. No garden plow is complete without this attachment.

90 cts.; postpaid, \$1.

Pull-Easy Hand Cultivator

Use a Pull-Easy and your garden will never lose its charm. There's no garden tool so easy to handle, and none that does the work so well. It thoroughly stirs up the soil and quickly prepares it for seeding. For cultivating, it's the ideal tool—and without a rival. From seed time to maturity it's the only garden tool you need. It can be instantly adjusted to any width, from 7 to 18 inches. No trouble cultivating the narrow rows and no danger of injuring the plants. Middle tooth can be removed for cultivating two rows at once. Light, strong and well balanced. Has unbreakable teeth. \$1.50; postpaid, \$1.65.



At prices named on this page we do not prepay postage. Where weights are given, articles may be sent by parcel post at regular zone rates, as per table on second cover page

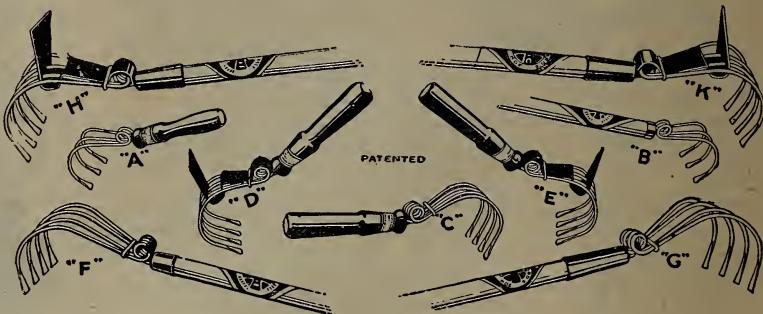
Norcross Garden Cultivator-Hoe and Weeder

Five-prong Cultivator-Hoe. Prongs are $\frac{1}{4}$ -inch square spring steel, bent cornerwise for strength, and attached to malleable head with four bolts, standard size. Works between rows, or center shovel can be removed and row straddled. 4-foot handle. Weight 4 pounds. \$1.25.

Universal connection to attach to Iron Age, Planet Jr. and other implements, extra, 25 cts. Weight, 1 pound.

Three-prong Cultivator-Hoe is a modification of the five-prong tool. Weight 3 pounds. 4-foot handle. Light size, 85 cts.

Midget Weeder. This little Weeder is constructed along the same lines as the Norcross three- and five-prong Cultivator-Hoes. It has a 9-inch handle and is designed for use in flowers, small shrubbery, etc., or for cultivating small vegetables, where a long-handled tool would be less practical. Weight 2 pounds. 50 cts.



Reichard's Combination Spring-Tooth Magic Weeder Hoes

LIGHT IN WEIGHT, STRONG IN CONSTRUCTION

The tines are formed to enter the ground on the order of a plow, lifting and pulverizing the soil, loosening and rendering it friable, thus conserving moisture, so essential to the rapid growth of young plants. They are formed of the very best steel that can be obtained for the purpose and are provided with an oblique coil near the shank, thus acting independently of the others and making it work very easily, obviating all danger of clogging and breaking. The handles, which are thoroughly selected, strong, straight-grained stock, are guaranteed not to loosen from the twisted shank, which thoroughly grips the handle like a vise.

Style	Length of handle	Length over all	Blade	Price
A	5 $\frac{1}{4}$ "	9 $\frac{1}{4}$ "	No Blade	\$0 15
B	16"	20"	No Blade	20
C	5 $\frac{1}{4}$ "	10"	No Blade	25
D	6"	11 $\frac{1}{4}$ "	With Blade	40
E	6"	11 $\frac{1}{4}$ "	"V" Blade	40
F	42"	50"	No Blade	50
G	48"	57"	No Blade	75
H	48"	56"	With Blade	1 00
K	48"	56"	"V" Blade	1 00

See pages 72, 73 and 74 for larger Garden Cultivators and Planters

**"Troweed" Trowel**

A Trowel, Weeder, and Transplanter in One. The sharp point, the

saw-tooth edge, the V shape, make it a combination garden tool of great value at the price of an ordinary trowel. 60 cts.; 70 cts., postpaid.



No. 211



No. 215

GARDEN TROWELS. 211. Forged steel. Weight 1 lb. 5-in. 60 cts., 6-in. 65 cts., 7-in. 70 cts.

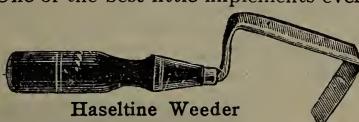
217. Transplanting. Weight 1 lb. 6-in. 20 cts., 7-in. 25 cts., 8-in. 30 cts.

215. English Pattern. Weight 1 lb. 6-in. 20 cts.

217-A. Transplanting Hoe. Weight 2 lbs. 7-in. 50 cts.

HASELTINE WEEDER. One of the best little implements ever

used in a garden. Made from special high grade steel and will last a lifetime.



Price 35 cts.; postpaid 40 cts.

DIBBLES. 218. Wood handle, usual size.....	\$0 45
219. Wood handle, small size.....	45
2180. Wood handle, brass points.....	75
Dibble 220. All iron.....	50
No. 220 Weight, each, 2 pounds.	
No. 2500. Asparagus Knife.....	35

GARDEN RAKES.

S. 14. Steel, with 14 teeth.....	85
S. 16. Steel, with 16 teeth.....	95
R. 16. Steel Road Rake.....	1 40
S. 18. Steel, with 18 teeth.....	1 10

SPADING FORKS.

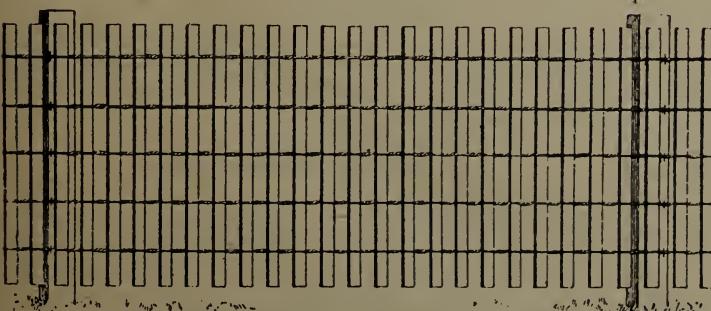
4-tine, wood, D-handle, Diamond back.....	1 50
4-tine, malleable, D-handle, Diamond back.....	1 35
5-tine, wood, D-handle, Diamond back.....	1 90
5-tine, malleable, D-handle, Diamond back.....	1 75

SPADES.

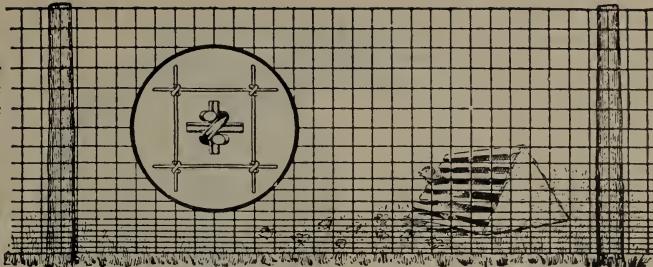
2412. D-handle, solid, plain back, 7 1/4 x 12 inches.....	1 75
2312. D-handle, solid, plain back, 7 1/4 x 12 inches.....	1 90

SCYTHES AND SNATHS.

Village Blacksmith.....	1 90
Blood's Champion Weed Scythe.....	1 90
Blood's Champion Brush Scythe.....	1 90
European Snath.....	1 50
No. 00. Patent Snath.....	1 50
No. 100. Brush Snath, double ring and plate.....	1 60



Combination Picket Fence

**Blue Ribbon Poultry Fence**

Top and Bottom Wires No. 15. All other Wires Including Stays No. 17

STANDARD SPACING

Strength—Durability—Protection—Beauty—Economy—Ease of Handling

These are the features of the ideal poultry fence sought for by all buyers. In fact these are practically all the good points any fence user could wish for, and make Blue Ribbon truly a "blue ribbon" poultry fence.

The ease of handling Blue Ribbon Fence is a joy to the average busy man—he the farmer or poultryman. With well braced end posts the entire length of the fence is stretched at one operation—is easily nailed to the posts, and the job is done. No top railing or bottom board is necessary—no laborious stretching between posts—no baggy, ungrainy fence after all is completed.

The strength of Blue Ribbon Poultry Fence is established by its heavy wires just twice the size of the wires used in ordinary 2-inch poultry netting—also by its superior weave. Everything considered—material, labor, and wire, Blue Ribbon Fence costs only one-half the cost of netting and lasts several times as long.

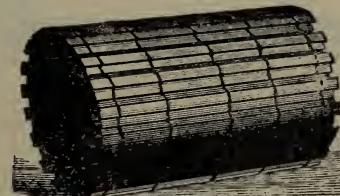
The one-piece stay (up and down wire) gives the fence greater rigidity—makes it self-supporting without the top rail and bottom board used in netting. The famous Square Deal knot never slips.

Protection to growing chicks is only obtained by a strong, well-stretched fence with line wires close enough together so the chicks cannot possibly crawl out and stray away. Blue Ribbon line wires at the bottom of the fence are only 1 inch apart.

The first four spaces of Standard Blue Ribbon Fence between strand wires, commencing at the bottom, are 1 inch, then 1 1/8 inch, 1 1/4 inch, 1 1/2 inch, 1 3/4 inch, 2 inch, 2 1/4 inch, 2 3/4 inch, 3 1/8 inch, and above this 4 inch. The stay wires (up and down wires) are only 4 inches apart.

Prices per 10-Rod Roll, Standard Spacing

No. Height	No. Height
1424. 24 in., 14 strands..	\$3 90
1736. 36 in., 17 strands..	5 00
2048. 48 in., 20 strands..	5 90
2360. 60 in., 23 strands..	\$6 80
2672. 72 in., 26 strands..	7 75

**Combination Picket Fence**

This popular fence for gardens, yards, vacant lots, etc., is made of good oak pickets 1 1/2 inches wide, 3/8 inch thick and 4 feet long, woven together 2 1/2 inches apart with five cables of No. 12 galvanized wire. No rail is required. We make this fence to order in quantities to suit the purchaser.

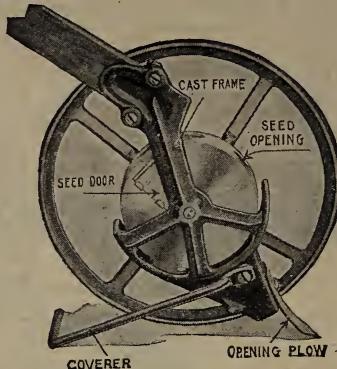
PRICES

Less than 75 feet, per foot.....	\$0 09
100 feet and upwards, per foot.....	08

The Eureka Garden and Hotbed Seed Drill

It will sow and cover beets, cabbage, carrots, celery, lettuce, onions, radishes, spinach, turnips and all such seeds with the greatest regularity.

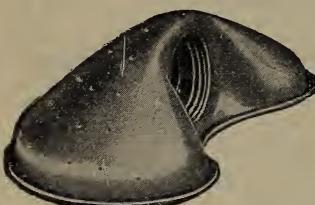
It is the only machine suited to sow in a hotbed. Sows up close to the sides in straight rows. Sows the smallest packet of seeds as well as the larger bulk. By using this Drill you save seed, you save time, you stand in an upright position, the work is easy, you get a better stand, you get better plants. Weight 4 lbs. \$1.50.

**"Fountain" Lawn Sprinklers****The "Original" Fountain**

Known the country over. \$1, postpaid.

The Fountain "Shower"

Hose nozzle with a mist-like spray. 25 cts., postpaid.

**The "Half-Circle" Fountain**

It sprinkles a semi-circle instead of a full circle. 50 cts., postpaid.

**The "Baby" Fountain**

It sprinkles square. 60 cts., postpaid.

Rando Sprinkler

Made with a good 10 ounce tough red rubber bulb, guaranteed for one year against cracking or breaking. Neck and perforated top are of black hard rubber. Price \$1.50, postpaid \$1.60.



HOTBED THERMOMETERS. 960-L. With brass point. Weight 1 pound. \$2.25.

To the Reader

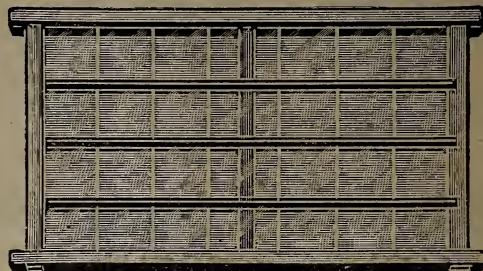
We trust you will bear in mind that this catalogue represents but one branch of our business. We call your attention to our other lines as follows:

AGRICULTURAL IMPLEMENTS. Our implements from the "Plow to the Threshing Outfit" are all of standard makes and up-to-date in improvements.

DAIRY SUPPLIES. A complete line of Sanitary Dairy Appliances selected from the products of the largest manufacturers of dairy equipment.

POULTRY SUPPLIES. A full line of the latest improved requisites for poultry-raising and egg-production, including an unsurpassed line of poultry feeds.

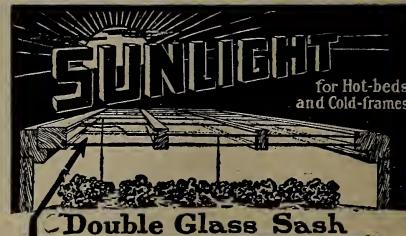
Catalogue of any of the above lines free upon application

Metropolitan Single-Light Hotbed Sash

Four rows, single-layer putty Sash; either 6 x 8 or 8 x 10 glass can be used. These Sash are 3 feet 2 inches by 7 feet long, made of best cypress, with cross-bar in center, and with horns.

Prices f. o. b. Pittsburgh

	Each
Unpainted, without glass, 1 to 5 sash	\$3 50
Unpainted, without glass, 5 to 10 sash	3 40
Unpainted, without glass, 10 to 20 sash	3 25
For 4 x 6 foot, add 40 cts. per sash to above prices.	
Special prices on larger quantities.	

**Sunlight Double-Glass Hotbed Sash**

Here is a Sash You Do Not Have to Cover. The Two Layers of Glass Do All the Work

They inclose an air-space $\frac{5}{8}$ inch thick, thus forming a transparent blanket. This keeps out the cold air at night better than single glass and boards or mats and it saves all the labor and expense of covering and uncovering. At the same time it lets in all the light all the time. Every gardener knows how valuable this is.

The Sash are furnished fully equipped with locking strips, etc., for glazing both the upper and under sides. The strips fit back into the grooves above the glass and cannot get out of shape. They are easily removed to admit new glass to repair breaks. No putty is needed, but it may be used as explained in directions sent with all shipments. The strips are far better than putty and will last as long as the Sash, which is a lifetime or more.

For the amateur as well as the professional gardener these Sash are a great improvement.

PRICES, F. O. B. CARS PITTSBURGH, 3- BY 6-FOOT SIZE

Painted with two coats of white paint

	Without Glass	With Glass
I to 5 sash, each	\$4 20	\$8 65
6 to 10 sash, each	4 15	8 55
II to 20 sash, each	4 10	8 45
II to 40 sash, each	4 05	8 35

Glass for Hotbed Sash**B Single Strength.**

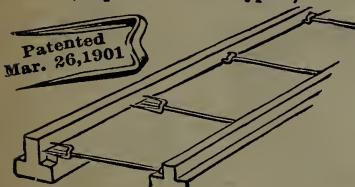
6 x 8, per box, 150 lights	\$6 50
8 x 10, per box, 90 lights	6 50
10 x 12, per box, 60 lights	6 50
10 boxes and upward, 10 cts. per box less than above prices.	

Mastica

Mastica is elastic and tenacious. In a few hours after use, a skin or film is formed, preventing the evaporation of the oils and leaving it pliable for years. On account of this quality, it admits of the expansion and contraction which is continual in the wood-work of a greenhouse from moisture and heat. One gallon will cover about 290 running feet, one side.

Qt. can, weight 5 pounds \$0 75
Gal. can, weight 15 pounds 2 40

MASTICA GLAZING MACHINE. For applying Mastica.
Weight 2 pounds 2 50

"PEERLESS" GLAZING POINT.
(Improved Van Reyper.)**Peerless Glazing Points**

Used by all practical florists and market-gardeners for glazing hotbed glass.

No. 2. For large, single-thick glass.
75 cts. per 1,000; postpaid, 85 cts.

Standard All-Steel Dry Measures**STYLE "B," LOW SHAPE**

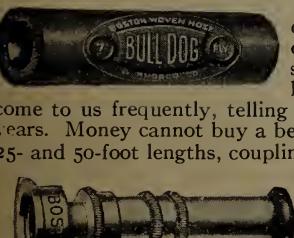
Capacity	Diam.	Depth	Price	Postpaid	Doz.
1 qt.	5 5/8 in.	3 in.	\$0 30	\$0 35	\$3 00
2 qts.	6 5/8 in.	3 1/8 in.	35	45	3 25
4 qts.	8 1/2 in.	4 3/4 in.	40	50	4 50
8 qts.	11 in.	5 5/8 in.	50	60	5 00
16 qts.	13 39/40 in.	7 1-24 in.	75	90	7 50

Garden Hose

Good Luck. This 5/8-in. 6-Ply Garden Hose is the biggest value on the market. Nothing approaching its quality has ever been offered at the price. This Hose is constructed similar to Bull Dog and is "built to stay alive." Here is real value for the customer who can afford only a moderate price. 25- and 50-foot lengths, couplings included, 18 cts. per ft.

Bull Dog. This 5/8-in. 7-Ply Garden Hose is the most famous brand on the market. It is the recognized standard and is well known as "the kind that lasts longest." Letters come to us frequently, telling of lengths in service of 14 or 15 years. Money cannot buy a better Garden Hose than Bull Dog. 25- and 50-foot lengths, couplings included, 23 cts. per ft.

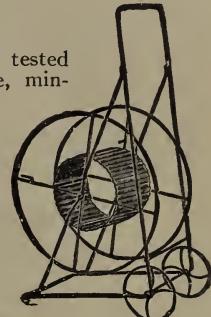
Boston Spray Nozzle. Built to last. It gives the utmost satisfaction. None better made. Your Garden Hose line is incomplete without it. 75 cts. each; postpaid 85 cts.



8030

**Spray Hose**

Bull Dog Hose. This was thoroughly tested with numerous mixtures of blue stone, mineral oil, and arsenate solutions before being put on the market. A strictly first-class Hose for power sprayers. 1/2-in., 7-ply, 26 cts. per ft.

**No. 20 All-Steel Hose Reel**

The finish is Black Japan, carefully baked on. Its capacity is 100 feet of garden hose. The reel is so placed in the frame that it will not tip over. This is a very practical reel. \$2 50.

Erado Weed Exterminator

Erado does away with the old-fashioned laborious and back-breaking method of digging up dandelions and weeds of all kinds by hand.

It makes obsolete all implements that only pull the tops off of the plants. Before **Erado** was introduced there was no weed-killer that absolutely killed the roots of noxious weeds as well as destroyed the tops. With this handy tool the dandelion or weed is completely killed.

An amount of weed-killing solution is dropped on the root; then by turning the tool the top of the plant is cut off. **Erado** has two knives so placed that the top of the plant is cut off by only a one-half turn of the tool. Weed-killers that have only one knife necessitate a complete turn which makes it necessary to change the grip on the handle

of the tool because a person's wrist will not allow the implement to be turned completely around without changing the hand.

It is a simple matter to refill **Erado**. Remove the handle by a half-turn. The solution is then put in the tube and the handle is easily replaced. This implement is not only adequate in the theory of its construction, but is entirely satisfactory in its practical operation. Galvanized-iron cylinder, brass tip, iron handle, \$1.25; postpaid, \$1.40. **Erado**

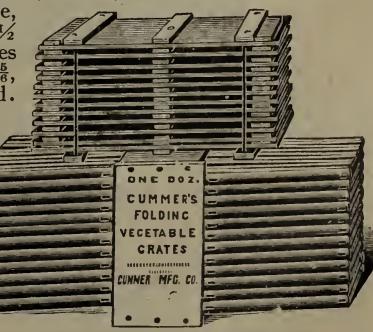
**Cummer Folding Fruit and Vegetable Crates**

Made of heavy slats for constant use as a field or storage crate. They are light, strong and durable, simple and easily folded. No nails, screws, or tools required.

Size of Crate, outside, 11 1/8 inches wide, 20 1/2 inches long, 13 1/2 inches high. Size of slats, 5/8 x 1 1/8, with corners rounded. Holds one bushel.

1 Crate, weighs
10 lbs. \$0 50
1 doz. Crates ... 5 00
50 Crates. 21 00
100 Crates. 38 00

We will deliver these Crates at your railroad station in lots of 50 or 100, at the above prices.





Fruit Packages

We make a specialty of Fruit Packages of all kinds and sizes to suit the gardening and fruit-growing trade in western Pennsylvania, among which are the following:

Berry Baskets.

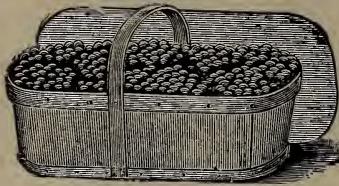
Diamond Market Baskets.

Grape Baskets.

Stave Baskets.

Hand-made Baskets.

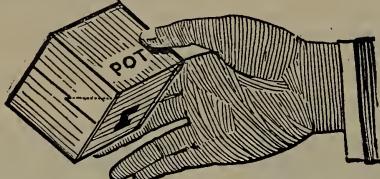
When you are in the market for Baskets, please ask us for prices.



Dirt Bands and Paper Pots

You cannot get all of the money out of early vegetables without the use of Dirt Bands or Paper Pots. Melons, sweet corn, lima beans and cucumbers may be started in Paper Pots or Dirt Bands under glass and will be ready for market three to four weeks earlier. Dirt Bands are simply Paper Pots without bottoms; seeds or plants are put into them, and, by the time they are ready to set out, the plants are put into the ground without taking out of the band, and there is no check in their growth.

Miller's Improved Lock-Process Dirt Pots



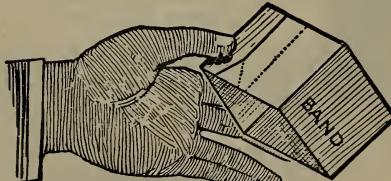
Patent Pending. Note the solid bottom.

Miller's Pots and Bands are made of high-grade water-finished board. Briefly, our Pots and Bands when locked stay locked; there is no occasion for the sides or bottoms of our Pots to become loose, and they contain no glue to loosen up or become sour, thus attracting insects and fungus diseases.

SIZES AND PRICES

		500	1,000
2 x 2	x 2.....	\$1 15	\$2 00
2½ x 2½	x 2.....	1 30	2 25
3 x 3	x 3.....	1 75	3 00
4 x 4	x 3½.....	2 25	4 00

Miller's Improved Lock Process Dirt Bands



These Bands are far superior to the flimsy paper kind. Each Band is creased to the exact shape, just fold on creased lines, and then tuck the slits in each other. This makes each plant stand as a unit. You can shift in them the same as you can in a clay pot.

SIZES AND PRICES

		500	1,000
2 x 2	x 2.....	\$0 75	\$1 25
2½ x 2½	x 2.....	85	1 40
2½ x 2½	x 2½.....	90	1 50
3 x 3	x 2½.....	1 00	1 75
3 x 3	x 3.....	1 10	2 00
4 x 4	x 3.....	1 50	2 75



The Saxmayer Vegetable Tyer (Patents Pending)

The Saxmayer Vegetable Tyer is no longer an experiment, as is testified by hundreds of satisfied customers, but is an essential part of every successful market-gardener's equipment. It will save the labor of from three to six persons per day, or a money saving of from \$4 to \$8 per day. The machine will pay for itself in a very few weeks.

The machine somewhat resembles, and is but little larger than a sewing machine, requires less power to run, and may be operated by treadle or driven by belt with a motor or gas engine. It may be kept in constant motion and automatically ties and releases each bundle only when it is placed in position for tying. It works so easily that a child can do more work with it than a number of grown persons could do by hand in the same time. The operator sits comfortably at the machine and does his work in perfect ease.

The machine ties any kind of bunch vegetables except the large dozen-bunches of celery. It uses either a four-ply cord or, by changing the knotter bill, a No. 13 tape. Price \$90.

Small size, with same mechanism as the large size, but without table. \$45.

A word in regard to the Saxmayer Vegetable Tyer purchased from you last season. The Saxmayer is a great machine to save time. With it we can tie as fast as two men can handle the bunches, or as fast as four men can tie in the ordinary way. This is a saving of three men. We can tie about 120 dozen in an hour with the motor power which we use. We are very much pleased with the Tyer, and should not like to do without it.—ANDREW NEWLAND & BROS., Millvale, Pa.

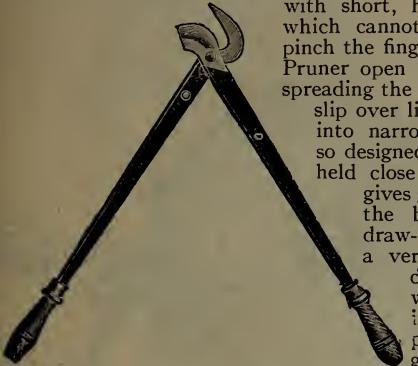
We cannot praise the Vegetable Tying Machine any too highly. We think the Saxmayer Tyer is a wonderful machine for, besides doing the work in less time, it saves a vast amount of labor. It is no trouble to tie 60 to 80 dozen bunches of beets, carrots and onions per hour. We think the machine paid for itself in less than two weeks. We run the machine by power, and when it is in operation the work is done very quickly as its speed is unlimited. We intend getting another Tyer when the season opens this spring.—GEO. W. BECKERT & CO., Pittsburgh, Pa.

In regard to your Saxmayer Tyer I will say, after having made use of it all summer, that for all it was a little complicated at the first trial, it has proved a success in my business and proved the best hired man at bunching time.—C. REUTZEL, R. F. D. No. 5, Ewalt Station, Pittsburgh, Pa.

Tiffany's All-Steel Tree Pruner

Cuts 1½-inch Limbs

Made on honor from start to finish. This entire tool is forged from bars of fine crucible steel carefully tempered in oil and fitted with short, hardwood hand grips which cannot come off, split, or pinch the fingers. The jaws of this Pruner open very quickly without spreading the handles too far apart, slip over limbs easily, and work into narrow places. They are so designed that large limbs are held close to the joint, which gives great leverage, and, as the blade works on the draw-cut principle, we have a very smooth and easy-cutting Pruner. Fully warranted. Length 24 inches; weight 3 pounds. Satisfaction guaranteed. \$3.50, ppd.


Tiffany's Forged-Steel Oil-Tempered Grafting Tool

Light, strong, handy, and efficient. Warranted against flaws or imperfections. \$1, postpaid.

Grafting Wax. Lb. 40 cts., postpaid.



No. 40. Duplex Pruning Saw

Disston's Pruning Saws

DISSTON'S HANDY KIT No. 107. This Kit consists of one 20-inch cross-cut blade, one 14-inch compass blade, one 16-inch pruning blade, and handle, all contained in a neat canvas case. Weight 3 pounds. \$3.50.

DISSTON'S NO. 2 NEST OF SAWS. This Nest of Saws consists of one 16-inch pruning blade, one 14-inch compass blade, and handle. Weight 2 pounds. \$1.25.

One additional 12-inch keyhole blade will be included in this kit for 30 cts. additional.

LITTLE GIANT PRUNING HOOK AND SAW. This pruner fills a long-felt need, as it combines two useful tools in one. Can be used with or without pole. The saw is detached when its use is not required on large limbs. Length of saw 12 inches. Hook will cut any branch $\frac{3}{4}$ inch in diameter. Hook and saw without pole, \$2.50.

No. 17 TRIANGLE PRUNING SAW. Oval steel back, straight tapered point, beech handle, varnished edges, three brass screws. Handle has extra-large grip for use with gloved hand. Blued steel blade. Length of blade 18 inches center to center of holes. Weight 3 pounds. \$1.50.

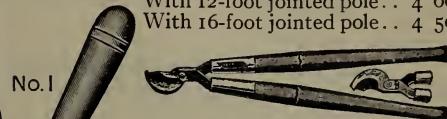
No. 40. DUPLEX PRUNING SAW. An extremely handy tool for pruning. The well-tempered blade combines two cutting edges—a fine-tooth edge for dry pruning and a coarser edge for green pruning, making it one of the most practical Saws for the purpose. The blade is secured to the beech handle by three brass screws. Weight 1 pound. 16-inch, 90 cts.; 20-inch, \$1.

Our POULTRY SUPPLY Department includes a full line of the latest improved requisites for Poultry Raising and Egg Production, including an unsurpassed line of poultry feeds. These are fully described in our 76-page Poultry Supply Catalogue, which will be mailed free on request.

Searight No. 1 Extension Tree Trimmer

Has a compound lever head and is made with a hook and side lever. It is calculated for heavy work, and will cut a limb up to $1\frac{1}{4}$ inches in diameter. Instead of running the rod connecting the knife lever along one side the pole to a handle lever, we have placed the handle lever on the opposite side, which allows the rod to cross the pole. As a result one-half the strain is thrown on one side of the pole and one-half on the other, which gives about double strength, and instead of the pole warping and bending, it has a tendency to remain straight and stiff. This is a very great advantage, and results in a large increase in the efficiency of the Trimmer.

With 8-foot solid pole.....	\$3 25
With 8-foot jointed pole.....	3 75
With 10-foot solid pole.....	3 50
With 12-foot solid pole.....	3 75
With 12-foot jointed pole..	4 00
With 16-foot jointed pole..	4 50



No. 777 Two-Hand Pruner

This is a tool of class, with more desirable features and easier cutting qualities than have ever before been combined in a single tool. Weight 5 pounds, \$2.25.



No. 18. Hand Pruning Saw

No. 18 Hand Pruning Saw

A bracket Hand Pruning Saw, with a blade so arranged as to be turned instantly to any angle. Weight 2 pounds. \$2.

Pruning Shears

Nos. 50 and R55. California Pattern, with adjusting nut and regulating ratchet; polished tool-steel blades, tempered; volute spring. No. 50, 9-inch, weight 1 pound, \$1.10; No. R55, 9-inch, full polished, weight 1 pound, \$1.50.

Nos. R60 and R65. California Pattern, with adjusting nut and regulating ratchet; polished tool-steel blades of extra quality, tempered; longitudinal double brass spring. No. R60, 9-inch, weight 2 pounds, \$1.35; No. R65, 9-inch, full polished, weight 2 pounds, \$2.

Nos. R70 and R170. With adjusting nut and regulating ratchet; straw-colored tool-steel blades of extra quality, tempered; volute spring. No. R70, 9-inch, weight 2 pounds, \$1.75; No. R170, 9-inch, full polished and nickel-plated, weight 2 pounds, \$2.30.

No. R85. Swiss Pattern. Full polished, best-quality crucible-steel blades, tempered, ground convex; adjusting nut and regulating ratchet; longitudinal double brass spring; removable handle-clip. Each Shear individually boxed, with an extra blade, which practically doubles the life of the Shear. 9-inch, weight 2 lbs, \$2.75.



Hedge and Grass Shears

No. 101. HEDGE SHEARS, genuine cast-steel, polished; notched; polished steel ferrules. The blade is notched near nut to hold and cut large branches. Made in two sizes; 9-inch, weight 5 pounds, \$1.75; 10-inch, weight 5 pounds, \$2.



Hedge Shears

No. 1263. GRASS SHEARS. 5½-inch cut; tempered steel bows; half-polished blade; tempered steel bows; polished shank; bent pattern. Weight 1 pound. 50 cts.

No. 217. GRASS SHEARS. 5½-inch cut; all-steel; half polished blade; trowel shank; gets close to the work without injury to the hands. Weight 1 pound. 65 cts.

No. 218. GRASS SHEARS. 5½-inch cut, full polished tempered steel blades. Trowel shank. \$1.

Tilley's Fruit-Picking Ladders

POINTED-TOP, BAILE LOCK EXTENSION. This is the most convenient Orchard Ladder ever produced for trimming trees and picking fruit. Entirely new and works perfectly. Made very light and strong. The best that can be produced.

SINGLE LADDERS

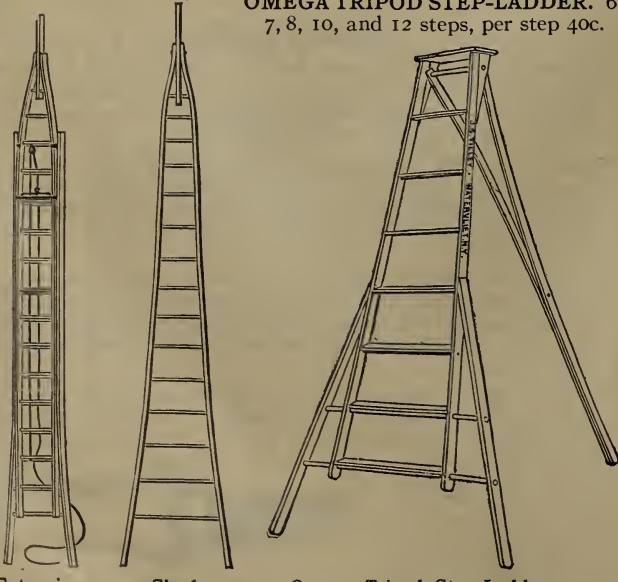
Open top	Open top	Pointed top	Pointed top
10 ft....\$3 00	18 ft....\$5 60	13 ft....\$3 50	19 ft....\$5 90
12 ft.... 3 60	20 ft.... 6 20	15 ft.... 4 50	21 ft.... 6 50
14 ft.... 4 20	22 ft.... 6 80	17 ft.... 5 25	
16 ft.... 4 80			

Point included in above measurement.

EXTENSION LADDERS

Open top	Pointed top
24 ft. extends to 21 ft....\$8 40	23 ft. extends to 20 ft....\$8 00
26 ft. extends to 23 ft.... 9 10	25 ft. extends to 22 ft.... 8 75
28 ft. extends to 25 ft.... 9 80	27 ft. extends to 24 ft.... 9 45
30 ft. extends to 27 ft....10 50	29 ft. extends to 26 ft....10 15
32 ft. extends to 29 ft....11 20	31 ft. extends to 28 ft....10 85
34 ft. extends to 31 ft....11 90	33 ft. extends to 30 ft....11 55
	35 ft. extends to 32 ft....12 25

OMEGA TRIPOD STEP-LADDER. 6, 7, 8, 10, and 12 steps, per step 40c.



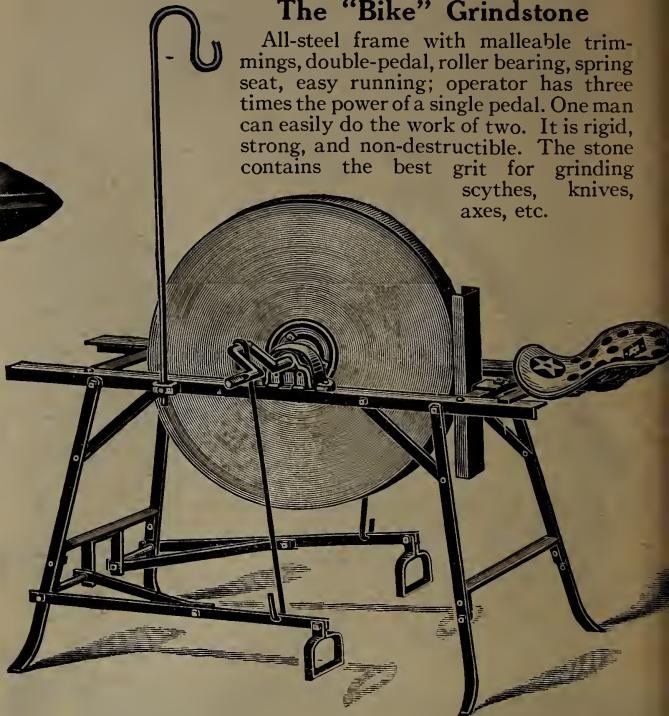
Extension

Single

Omega Tripod Step-Ladder

The "Bike" Grindstone

All-steel frame with malleable trimmings, double-pedal, roller bearing, spring seat, easy running; operator has three times the power of a single pedal. One man can easily do the work of two. It is rigid, strong, and non-destructible. The stone contains the best grit for grinding scythes, knives, axes, etc.



No. 1 Stone, weight 65 to 80 lbs. \$10 00
No. 2 Stone, weight 80 to 110 lbs. 10 50

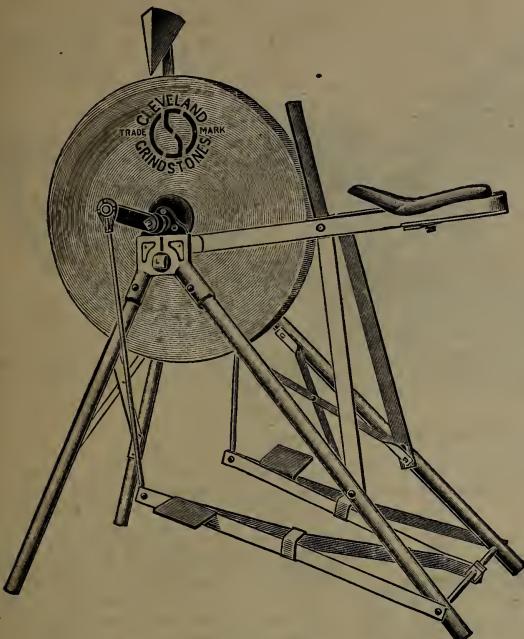
**Samson Mounted Grindstone****Specially Selected Stone**

The frame is made of the best seasoned hardwood. The legs are securely framed into the sidebars and fastened by a bolt. The ends of the sidebars are neatly turned to serve as handles.

PRICES

No. 150 Stone, weighs 100 to 110 lbs., usual thickness 1¾ to 2¼ inches.....	\$6 50
No. 155 Stone, weighs 70 to 80 lbs., usual thickness 1¾ to 2¼ inches.....	6 00
No. 160 Stone, weighs 40 to 50 lbs., usual thickness 1¾ to 2¼ inches.....	5 50

We issue a special catalogue of Farm Machinery and Implements, and shall be glad to send a copy on request to anyone interested

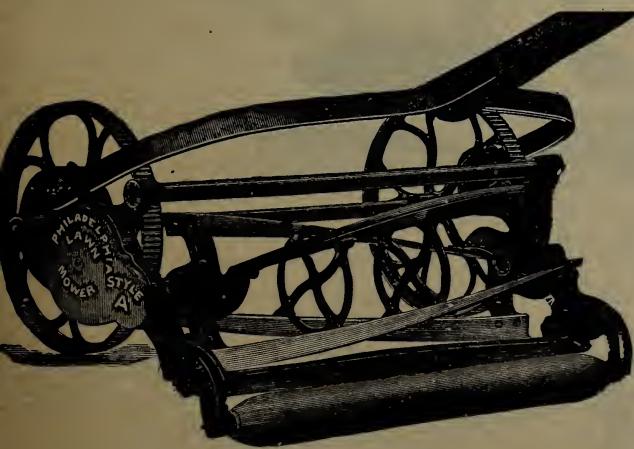


The Sterling Grindstone (Ball-Bearing)

A steel tubular frame, mounted Grindstone. Ball-bearing throughout. Absolutely the best mounted Grindstone on the market.

A double-treadle frame embracing the bicycle features of our bi-treadle. All rods and bolts are threaded; there are no cotter pins and no loose parts. Permanent rigidity is insured. Provided with a large comfortable seat and clothes protector.

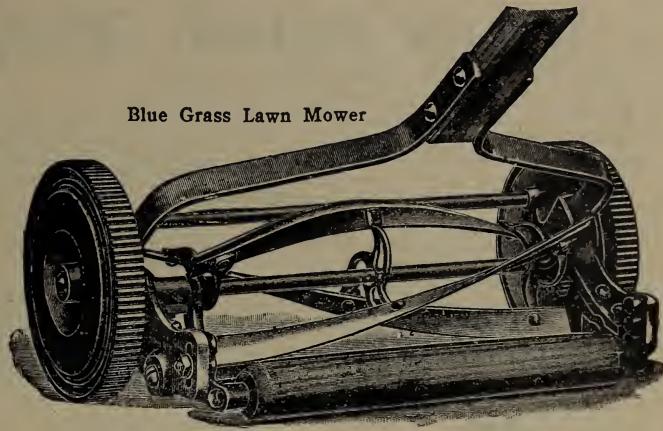
Fitted on crank and shaft with improved ball bearings—encased—consisting of a heavy steel ball casing and a cone or sleeve, turned out of solid cold-rolled steel shafting, balls cannot work loose or drop out. Weight of stone, 50 to 60 lbs. \$9 each.



The Genuine Philadelphia Lawn Mower

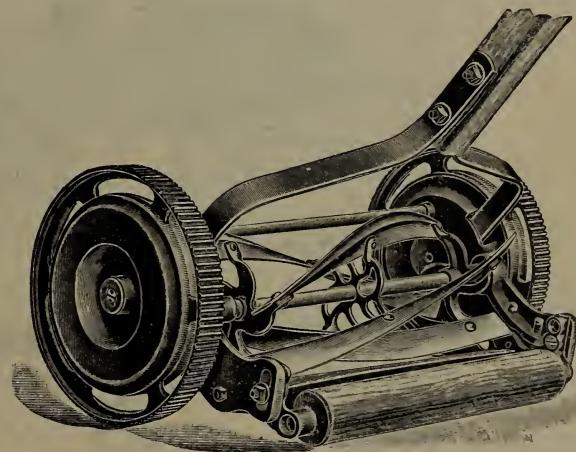
Four blades, 10-inch wheel, $6\frac{1}{2}$ -inch cylinder, train of three gears, double ratchet.

Style "A" All Steel.—This is the lightest draft Lawn Mower made, and, being made entirely of steel, it is by far the most durable. It has no competitor. 15-in., \$20; 17-in., \$22; 19-in., \$24.50; 21-in., \$26.50.



Blue Grass Lawn Mower

The Blue Grass Lawn Mower has 8-inch drive wheel, shaft $\frac{1}{2}$ inch diameter in adjustable plain bearing box, and three tempered tool-steel knives on reel. In the Blue Grass Lawn Mower we have the best value that has ever been offered in a low-price machine. 12-in., \$5.50; 14-in., \$5.75; 16-in., \$6; 18-in., \$6.25.



Wizard Ball-Bearing Lawn Mower

In the Wizard we offer a high-grade Lawn Mower at a low price. It is equipped with 9-inch drive wheels, four tempered tool-steel blades with crucible tool-steel under-knife, hardened and tempered. The patent cone adjustment has overcome what heretofore has proved a serious objection to all Ball-Bearing Mowers. 14-in., \$8, 16-in. \$8.25, 18-in. \$8.50.

The "E-Z" Grass Catcher

The "E-Z" Grass Catcher has a galvanized iron bottom. The sides and back are made of very strong canvas, attached to the bottom by our impossible-to-rip connections. The frame is made of $\frac{1}{4}$ -inch galvanized iron wire, with side supports of the same stock.

A universal attachment made of malleable iron fastens on the yoke of the mower, and is so arranged that it is possible to attach it to any mower, no matter what the diameter of the drive wheel. It is guaranteed to fit perfectly all styles and makes of lawn mowers. No. 92, fits 12-, 14- and 16-in. mowers, \$2.25; No. 93, fits 16-, 17- and 18-in. mowers, \$2.35; No. 94, fits 18-, 19-, 20- and 21-in. mowers, \$2.45.

Prices on Horse Lawn Mowers quoted on request

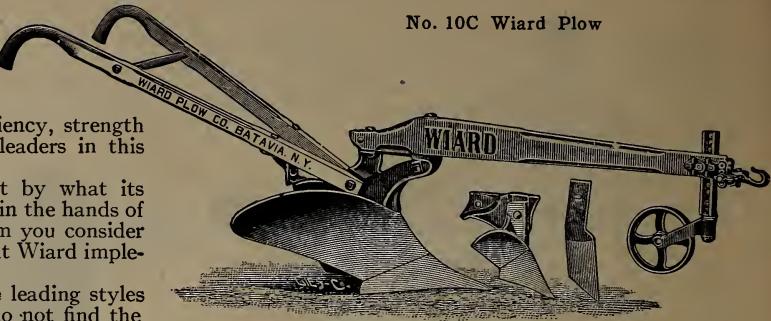
WIARD PLOWS

The Wiard Plows have been continuously manufactured for more than a century. Their history has been a record of constant improvement in efficiency, strength and durability, and they are today recognized as leaders in this class of agricultural implements.

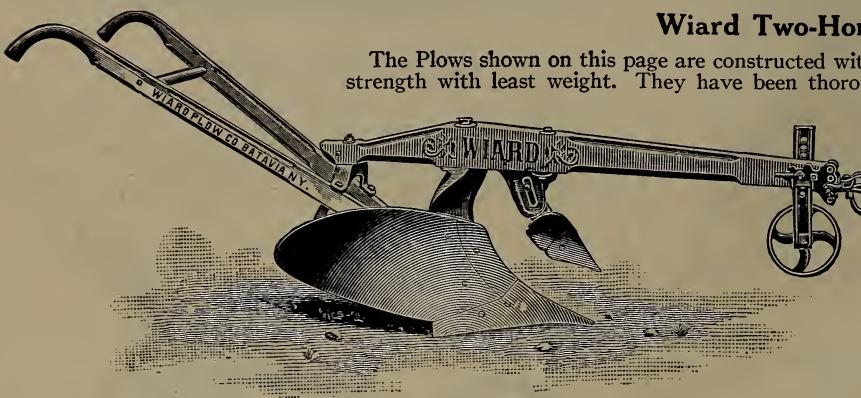
The real quality of an implement is shown, not by what its makers claim for it, but by the results which it gives in the hands of the average user. Therefore, go to the farmer, whom you consider fair and without prejudice, and see what he says about Wiard implements; in other words, ask the man who owns one.

Space will permit of our showing but a few of the leading styles adapted to Pennsylvania soils, and customers who do not find the Plow they are looking for described herein are requested to ask for our complete catalogue, which will be mailed free.

No. 10C, RIGHT-HAND, CHILLED MOLDBOARD. This is the acme of perfection in one-horse Plows. Capacity, 4 to 7 inches deep, 6 to 11 inches wide. Weight, 77 pounds. Plain, \$12, wheel, \$1.35 extra; jointer, \$2.25 extra.



No. 10C Wiard Plow



Wiard Two-Horse Plows

The Plows shown on this page are constructed with special reference to obtaining the greatest strength with least weight. They have been thoroughly tested by hundreds of farmers in all kinds and conditions of soil, and are unequalled for general-purpose work.

No. 26½, TWO-HORSE PLOW, RIGHT-HAND. For general-purpose work, in all kinds and conditions of soils, this Plow cannot be excelled. Capacity 5 to 8 inches deep, 10 to 14 inches wide. Weight, 115 pounds. Plain, \$18; wheel, extra, \$1.60; jointer, extra, \$3.25; steel moldboard, extra, \$2.

No. 27, Left-Hand. Same capacity, sizes and prices as No. 26½, Right-Hand.

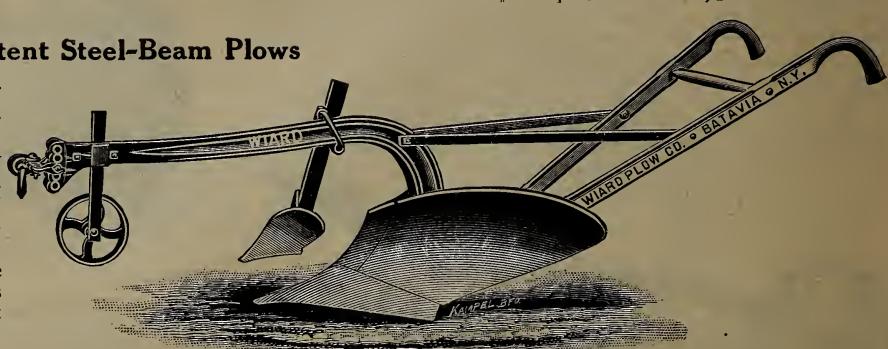
No. 28, Left-Hand. Capacity, 7 to 9 inches deep, 12 to 16 inches wide. Add \$1 to price of No. 26½.

Wiard Patent Steel-Beam Plows

The illustration shows our latest "New Pattern" series of combination, grooved steel-beam, general-purpose Plow.

No. 103 is a two-horse left-hand Plow of medium capacity, and is suited to either sod or stubble plowing. 4 to 7 inches deep, 9 to 13 inches wide. Weight 120 pounds.

No. 104 is a regular two- or three-horse Plow, suited to all soils. 5 to 8 inches deep, 11 to 15 inches wide. Weight 130 lbs.



No. 43, Right-Hand. Same as No. 103, Left-Hand.

No. 44, Right-Hand. Same as No. 104, Left-Hand.

PRICES: No. 103 or 43. Plain, \$17; wheel, extra, \$1.35; jointer, extra, \$3.25; steel moldboard, extra, \$2. No. 104 or 44. Add \$1 to prices of No. 103.



No. 21
Wiard Swivel
Plow

Wiard Swivel Plows

The Wiard Swivel Plows are so well known throughout Pennsylvania that a detailed account of their merits seems unnecessary here. They are, in every way, the best to be had, and thoroughly adapted to the needs of our farmers.

No. 21. ONE-HORSE HILLSIDE PLOW, CHILLED MOLDBOARD. Capacity 4 to 7 inches deep, 6 to 10 inches wide. Weight 77 pounds. Plain, \$13.50; wheel, extra, \$1.35.

In addition to the Plows illustrated and described on these pages, we have other styles and sizes of Wiard, Oliver, Gale and South Bend Plows, all of which are described in our General Catalogue of Agricultural Implements, Farm and Garden Supplies, which will be sent free on request.

WIARD SWIVEL PLOWS, continued

No. 130X. TWO-HORSE SWIVEL PLOW. One of our best sellers. Capacity 5 to 8 inches deep, 10 to 13 inches wide. Weight, 104 pounds. Plain, \$16.50; adjustable clevis, extra, \$1.35; wheel, extra, \$1.60; colter, extra, \$3.25; steel moldboard, extra, \$2.

No. 140 TWO-HORSE SWIVEL PLOW. The best of all wood-beam Swivel Plows. It has a strong, high standard and long shoe, making it one of the most steady-running Plows in our list. Made throughout of the best materials. Capacity 5 to 8 inches deep, 10 to 13 inches wide, weight 11.5 pounds. Plain, \$17; adjustable clevis, extra, \$1.35; wheel, extra, \$1.60; jointer, extra, \$3.25; colter, extra, \$3.25; steel moldboard, extra \$2.

No. 140
Two-Horse Wiard
Swivel Plow

Pittsburgh Combination Harrow

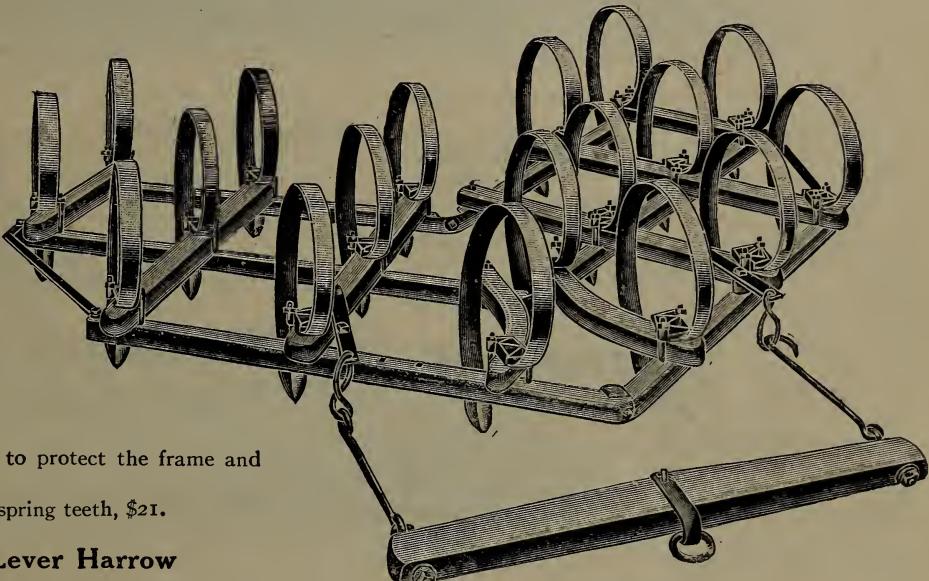
The illustration tells the story—a strong, simple and efficient Harrow

Beams. The under side of the Pittsburgh Combination Harrow is constructed of high-carbon angle steel beams, and the upper side of best oak beams, so there is no wear against the wood parts.

Teeth. Best spring-steel, formed so that the pitch can be changed to suit the operator. They fasten on top of the frame and the bolt-heads are protected so they will not wear off.

Stump Guards or braces, placed to protect the frame and make it perfectly rigid.

With 16 spring teeth, \$19; with 18 spring teeth, \$21.

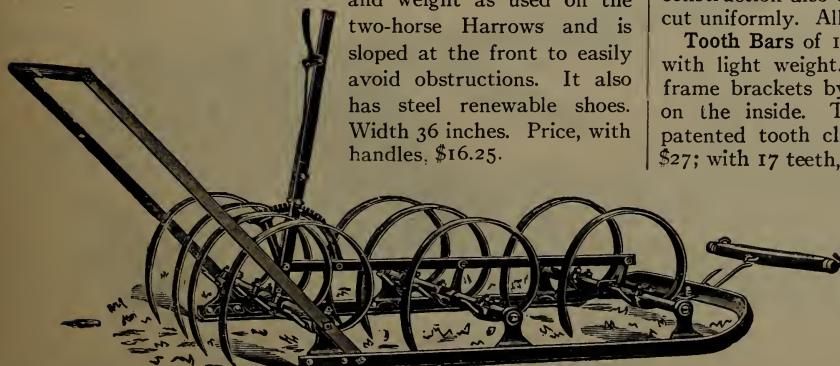


Badger Nine-Tooth Lever Harrow

A very popular Harrow, and is used extensively for gardens, small farms and orchards. It is neat and perfect in construction and very strong, and is thoroughly guaranteed. Made entirely of steel and malleable iron.

By using firmly attached steel handles, the operator controls the Harrow the same as a cultivator.

The frame is made in one piece, of angle steel, the same size and weight as used on the two-horse Harrows and is sloped at the front to easily avoid obstructions. It also has steel renewable shoes. Width 36 inches. Price, with handles, \$16.25.



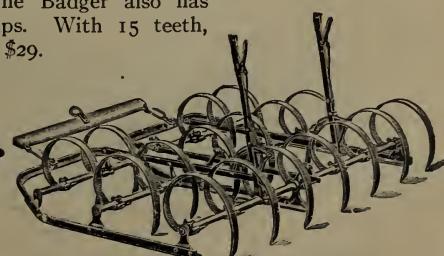
Badger Nine-Tooth Lever Harrow

Badger Spring-Tooth Steel Lever Harrow

A Runner-Frame Harrow, the popular-style frame, and holds a prominent position with the trade. It has stood the test of years. Kept thoroughly improved and up to date.

Only three runners, of angle steel, are used on the Badger, which give the Harrow great clearance and avoid clogging. This construction also causes the Harrow always to run steadily and cut uniformly. All the runners have steel renewable shoes.

Tooth Bars of $1\frac{1}{4}$ -inch steel pipe make a very strong frame, with light weight. These bars are attached to the malleable frame brackets by steel rods running the whole length of pipe on the inside. The Badger also has patented tooth clips. With 15 teeth, \$27; with 17 teeth, \$29.



Badger Spring-Tooth Steel Lever Harrow

"Columbian"**Steel Lever**

ONE- AND TWO-HORSE

Harrow

The Columbian Harrow is made with lever adjustment, so that the teeth can be changed to any slope quickly and with little exertion on the part of the operator.

The main-bars are U-shaped, and made especially for Harrow purposes, from an extra quality of steel, very high in carbon, which insures it against bending, even under the most severe strain. The cross-bars and braces are rolled flat from same kind of material. Great pains have been taken in preparing the patterns for the different parts, so that when put together they will be free from "lost motion," and respond quickly to the action of the lever.

The tooth-clamp is without doubt the best yet devised and consists of stirrup bolt and back and front boxing. When fastened with this device, the teeth would not be more rigid if a part of the bar itself. Teeth can be raised or lowered any distance, and any size can be used, from $\frac{1}{2}$ inch square to $\frac{7}{8}$ inch square. The stirrup-bolt clamp is fixed to take the common stock teeth carried by all dealers. It is securely braced and nicely finished. One-horse, with 25 teeth, one section, \$12; two-horse, with 50 teeth, two sections, \$21.50; two-horse, with 60 teeth, two sections, \$23.50.

Cutaway
(CLARK)

Double Action Disk Harrows

Made in Regular and Extension Heads—
and in sizes for all

The illustration shows the Cutaway (Clark) Double Action—Regular. Observe that this machine is built with all four gangs attached to *one rigid main frame*. The rear disks are held so that they cut and pulverize the soil between the furrows cut by the fore disks. All the soil over which the machine passes is thoroughly worked. Moreover, the soil thrown outward by the fore disks is thrown back by the rear disks and the surface of the land is left level. This Cutaway (Clark) Double Action Harrow constantly works at leveling the ground, cutting down the high places, filling in the hollows, leaving a seed-bed in both places.

Also observe the compactness of this harrow. The length of the entire load (that is, the distance from the hitch to the extreme rear end of the machine) in the Cutaway (Clark) Double Action is about one-half the length of the load in the tandem and trailing types. The draft is, therefore, but one-half to three-fourths as much as in these substitute machines of corresponding size.

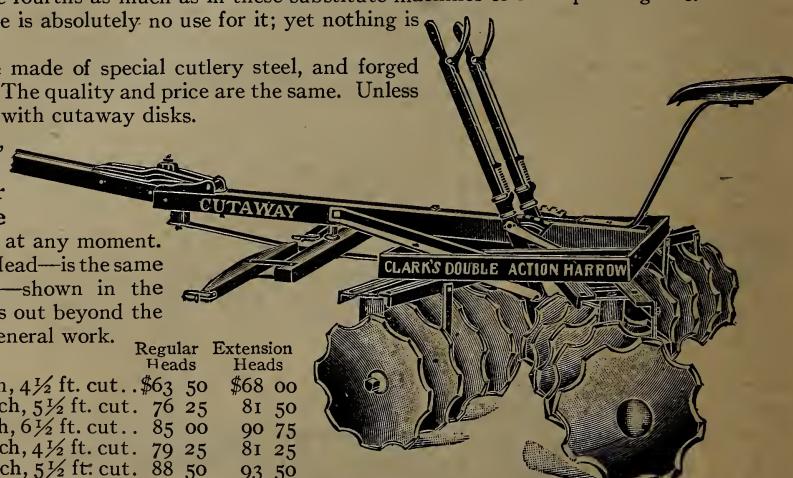
There is no tongue truck on this machine. There is absolutely no use for it; yet nothing is sacrificed. Instead, money is saved the buyer.

The disks on all Cutaway (Clark) machines are made of special cutlery steel, and forged sharp. Either cutaway or solid disks are furnished. The quality and price are the same. Unless solid disks are specified, all machines are equipped with cutaway disks.

The bearings are the famous Clark hardwood, soaked in oil.

Note the jointed pole, which may be attached or detached in one minute, making it possible to use the Harrow either as a tongueless or a tongue machine at any moment.

The Cutaway (Clark) Double Action—Extension Head—is the same as the Cutaway (Clark) Double Action—Regular—shown in the illustration, making it possible to extend the gangs out beyond the team for orchard cultivation. They close up for general work.



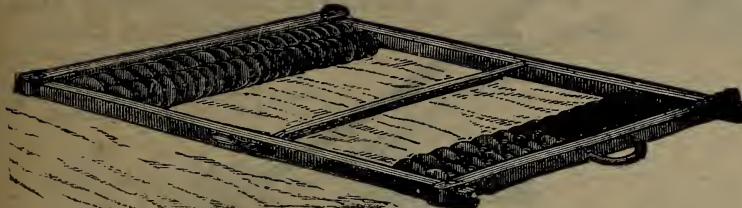
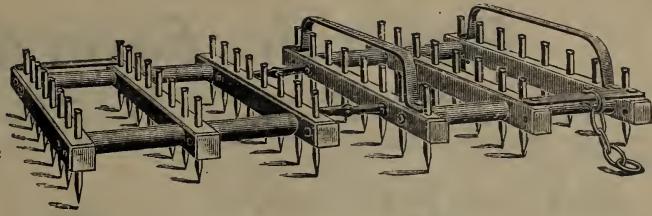
	Regular Heads	Extension Heads
A-4, 16 16-in. disks, double action, two-horse hitch, 4½ ft. cut..	\$63 50	\$68 00
A-5, 20 16-in. disks, double action, three-horse hitch, 5½ ft. cut.	76 25	81 50
A-6, 24 16-in. disks, double action, four-horse hitch, 6½ ft. cut..	85 00	90 75
X-4, 16 18-in. disks, double action, three-horse hitch, 4½ ft. cut.	79 25	81 25
X-5, 20 18-in. disks, double action, three-horse hitch, 5½ ft. cut.	88 50	93 50
X-6, 24 18-in. disks, double action, four-horse hitch, 6½ ft. cut..	102 00	107 75

If two-horse hitch is wanted in place of the three, or three-horse hitch in place of four, deduct \$1 from above prices.

Descriptive catalogue and prices on other sizes of double action and reversible single action Harrows mailed on request

Malta Spike Tooth Harrows

The woodwork is of the best quality of thoroughly seasoned white oak. The frames are closely jointed, and made secure and solid by steel rods passing entirely through them. All tooth-bars are riveted at each end. One-horse, with 32 teeth, one section, with runners, \$9.50; two-horse, with 48 teeth, two sections, like illustration, \$13.



stones below the surface better than any field roller, leaving the land smooth and level. The disks of one roller work between those of the other, preventing clogging in damp soil. The board in the center is set at an angle, is adjusted up or down, and serves as a leveler. Two-horse, Regular Size, 6 ft. 8 in. by 6 ft., with 58 8-in. disks; weight 220 lbs., \$32. One-horse, Special Size, 4 ft. 6 in. by 4 ft., with 46 8-in. disks; weight 200 lbs., \$28.

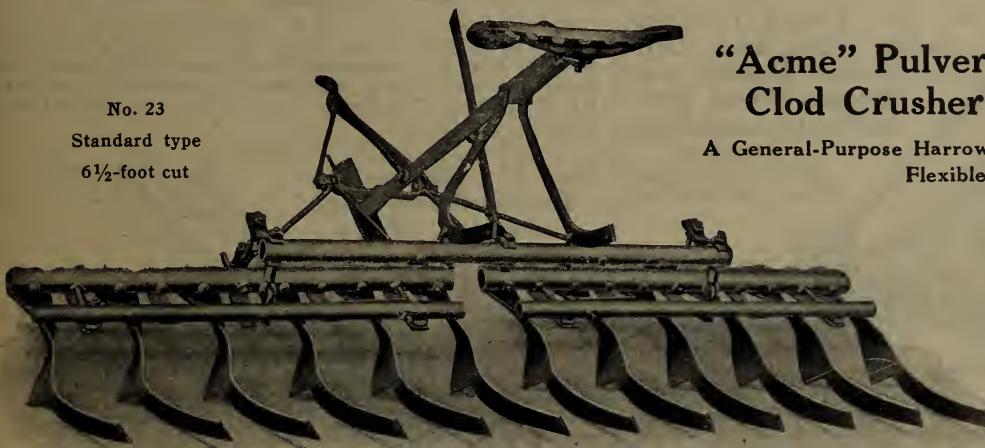
The Meeker Smoothing Harrow

A Perfect Harrow and a Perfect Land Roller Combined

This Harrow has become a great favorite among all classes of farmers and market-gardeners in every part of the country. It has two sets (four) of rollers, containing fifty-eight steel disks. These disks grind all lumps and save the work of raking, and also mash small

No. 23

Standard type
6½-foot cut



"Acme" Pulverizing Harrow, Clod Crusher and Leveler

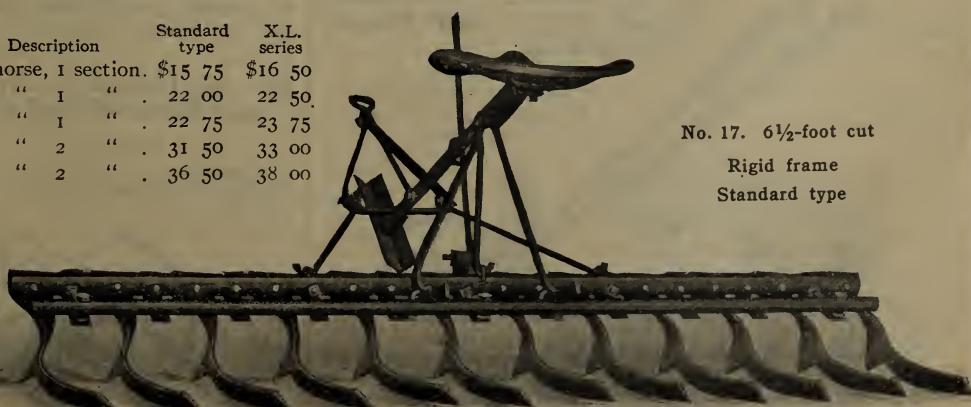
A General-Purpose Harrow. Flexible Frame.

The man who owns an "Acme" is completely equipped for the preparation of perfect seed-beds after plowing, regardless of the character of soil he has to work. Everything that a Harrow ought to do, the "Acme" does.

It cuts, crushes, turns, smooths and levels, all in one operation. The shape of the coulters permits

Size	Weight	Width	Description	Standard type	X.L. series
G.....	62 lbs....	3 ft. 0 in....	1 horse, 1 section.	\$15 75	\$16 50
H.....	100 "	4 ft. 4 in....	1 " " "	.22 00	.22 50
I7....	115 "	6 ft. 6 in....	2 " I " "	.22 75	.23 75
I23....	130 "	6 ft. 6 in....	2 " 2 " "	.31 50	.33 00
I26....	160 "	8 ft. 6 in....	2 " 2 " "	.36 50	.38 00

X.L. Series Harrows. Same sizes as regular Harrows, but equipped with X.L. coulters which are longer, overlap and have more flare. Ideal for killing small weeds as the whole surface is cut over; also extensively used for summer fallowing.



No. 17. 6½-foot cut
Rigid frame
Standard type

Planet Jr. Farm and Garden Tools

Cut down work and boost your crops. Old-time farming and gardening no longer pays. These scientific tools do the work of three to six men, give bigger yield, and save their cost in a single season. Invented and made by a practical farmer and manufacturer, with half a century's experience. Planet Jrs. are strong and lasting. Every tool fully guaranteed. Come and let us convince you of their economy.

No. 3 Planet Jr. Hill and Drill Seeder

Price, \$18.50

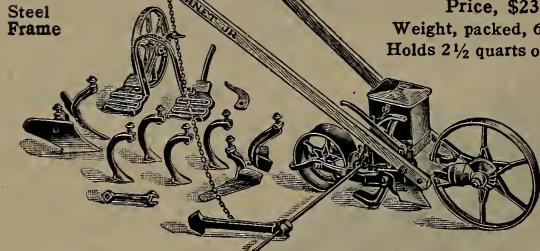
Holds three quarts of seed. A favorite among onion-growers, market gardeners, and seedsmen. Sows accurately in a narrow line making wheel-hoe cultivation easy.



No. 25 Planet Jr. Combined Hill and Drill Seeder, Double- and Single-Wheel Hoe, Cultivator, and Plow

Price, \$23

Weight, packed, 61 lbs.
Holds 2 1/2 quarts of Seed



As a Seeder it is practically the same as the Planet Jr. No. 4, and as a Wheel Hoe it has the same steel frames and cultivating attachments as the Planet Jr. No. 12 Double-Wheel Hoe.

Two acres a day can easily be worked, and when it is done it will be a better job than several men could have done in the same time with hand hoes.

No. 31 Planet Jr. Combined Drill Seeder and Single-Wheel Hoe

Price, complete, \$13.

Weight, packed, 30 lbs.

No. 31D, as a Drill Seeder only, \$10.50



This new tool is of great value to gardeners who have never felt able to own either a Seed Drill or a Wheel Hoe. It will sow even a small packet of garden seed with great precision. Quickly changed to a splendid Wheel Hoe. A special machine for the small gardener.

No. 33 Planet Jr. Single-Wheel Hoe

(The No. 31 without Seeder) price, \$6.50

No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator, and Plow

Price, complete, \$19.50
Weight, 50 lbs.

As a Seeder only (No. 4D) \$15.50
Holds 2 1/2 quarts of seed



Plants in hills 4, 6, 8, 12 or 24 inches apart.

Soon pays for itself in the family garden as well as in the larger acreage. Sows all garden seeds (in drills or in hills), plows, opens furrows and covers them, hoes and cultivates quickly and easily. No. 4D, Hill and Drill Seeder, same as above less the cultivating attachments, \$15.50.

No. 11 Planet Jr. Double-Wheel Hoe, Cultivator, Plow, and Rake

Price, with attachments, as in cut, \$16

Weight, packed, 39 lbs.
Steel Frame, 14-inch steel wheels

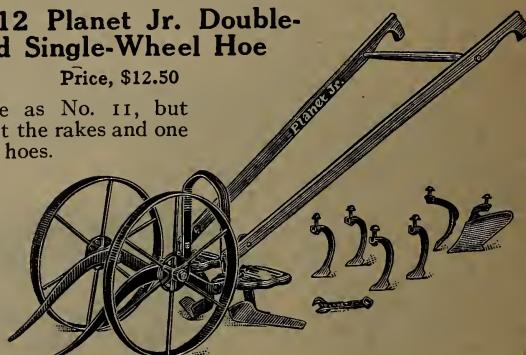


A Single- and Double-Wheel Hoe in one. Straddles crops till 20 inches high, then works between. Has steel frames and 14-inch steel wheels. The greatest hand-cultivating tool in the world.

No. 12 Planet Jr. Double- and Single-Wheel Hoe

Price, \$12.50

Same as No. 11, but without the rakes and one pair of hoes.

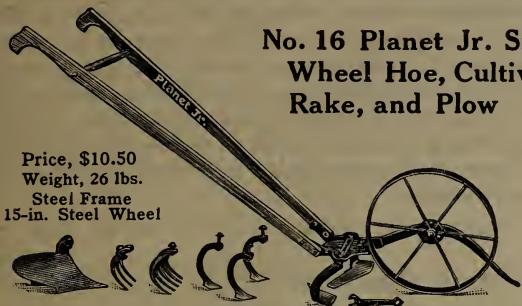


The attachments sold with No. 12 are what gardeners use most, and the others can be added as wanted.

You can't afford to work without a Planet Jr. Come in and let us prove it to you.

Planet Jr. Farm and Garden Tools

Planet Jr. Tools are the greatest savers of time, labor, and money ever invented for the farm and garden. They pay for themselves in a single season in bigger and better crops, and last a lifetime. Fully guaranteed.



No. 16 Planet Jr. Single-Wheel Hoe, Cultivator, Rake, and Plow

Price, \$10.50
Weight, 26 lbs.
Steel Frame
15-in. Steel Wheel

Nos. 16 and 17 wheels, frames, and handles are alike, but the attachments sold with each vary.

The handles are adjustable in height. The frame is steel, convenient and strong, with quick-change device by which to exchange the tools without removing the nuts.

These wheel-hoe tools are of a special pattern, carefully tested by practical men; no others ever offered compare with them. All the steel parts are high carbon steel, oil-tempered, finely formed, finished and polished and work to a charm.



No. 17 Planet Jr. Single-Wheel Hoe

Price, \$8.75

The highest type of Single-Wheel Hoe made. Light but strong, and can be used by man, woman, or boy. Will do all the cultivating in your garden in the easiest, quickest, and best way.

No. 17½ Planet Jr. Single-Wheel Hoe

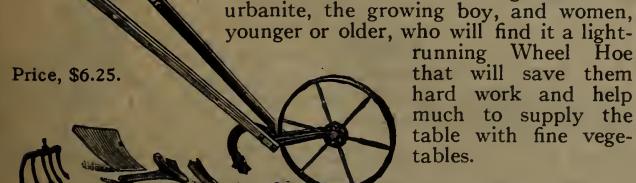
Price, \$7.60. Weight, 21 lbs.

This tool is identical with No. 16, except in equipment. The pair of 6-inch hoes, three cultivator teeth, and leaf-lifter which go with it are all the finest of their kind.

No. 19 Planet Jr. Single-Wheel Hoe

This combination will delight the suburbanite, the growing boy, and women, younger or older, who will find it a light running Wheel Hoe that will save them hard work and help much to supply the table with fine vegetables.

Price, \$6.25.



WE HAVE THE PLANET JR. YOU NEED. COME AND GET IT

Planet Jr. Twelve-Tooth Harrow Cultivator and Pulverizer

90, complete, \$20. No. 90B, without Pulverizer, \$16.75. No. 90D, without Pulverizer or Wheel, \$13



With the Twelve-tooth Harrow you go as deep or shallow as you like, come up close to row without injuring plants, cut out all the weeds, stir the soil and fine it as with a garden rake. You widen and narrow as you please between 12 and 32 inches. A favorite with strawberry-growers, market-gardeners, etc.

No. 8 Planet Jr. Combined Horse Hoe and Cultivator

Price, with Steel Wheel, \$20
Weight, packed, 83 lbs.



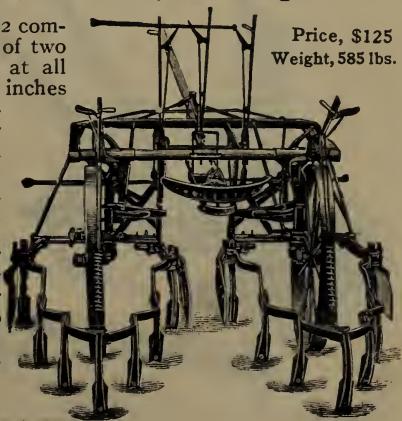
No other cultivating machine is so widely known as the Planet Jr. Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle. Fifteen other styles of Planet Jr. Cultivators—various prices. Come and get a Planet Jr.; save time and money.

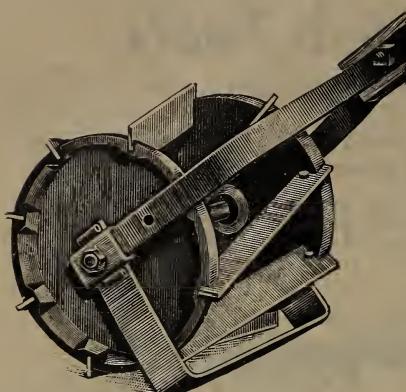
We have other styles of one-horse cultivators at various prices. Fully guaranteed. Let us show you all our Planet Jrs.

No. 72 Planet Jr. Two-Row Pivot-Wheel Cultivator, Plow, Furrower, and Ridger

The improved No. 72 completes the cultivation of two rows at one passage, at all widths from 28 to 44 inches inclusive, and the implement is especially built to do this when the rows are irregular. This tool is so designed that the operator can make changes in width of gangs instantly while in motion, by means of a handy lever for each gang, so as to accommodate the machine perfectly to rows which vary greatly in width.

Price, \$125
Weight, 585 lbs.





The Barker Weeder, Mulcher and Cultivator

The Barker Weeder, Mulcher and Cultivator

Should be in everyone's garden. Easy to operate. Self-adjusting. A time-saver. One man with a "Barker" can do more work, do better work than ten men with hoes. It cultivates and pulverizes the soil, forming a soil-mulch, which prevents evaporation, thus conserving the moisture, holding it in the soil for the use of the growing plants. The construction of this little machine is very simple. There is nothing to get out of order, nothing complicated about it. It has a revolving reel, holding eight spring steel blades securely fastened at the ends in cast-iron heads. Below this reel is a steel knife with ends turned up and connecting with the axle outside the heads. This lower knife passes below the surface of the ground, where it cuts off all the weed roots, while the revolving reel working in combination with it cuts up the soil, separates the dirt from the weed roots and forms a perfect soil mulch.

No. 8½D. The standard-size machine; will weed and mulch or cultivate a strip 8½ inches wide..... \$8 75
No. 10D. Will weed and mulch a strip 10 inches wide..... 10 00

Ask for special descriptive circular

Columbia Planters

The Columbia Seeding Machines are the product of more than 50 years' experience in inventing, developing, and manufacturing seeding machines. They will plant any seed that grows, from the smallest flower seed to lima beans. They are absolutely accurate, having a positive force feed that does not injure the most tender seed, and you cannot possibly skip the planting of a single seed. You can hill or drill your seed, plant one seed or a dozen in a hill. When the seed has been placed in the seed-hopper, not a single seed can escape until the machine is in gear and in motion. When you stop the machine at the end of a furrow, the seed stops flowing instantly. A touch of the gear-lever throws the machine out of gear and you move to the next furrow without losing a single seed. The Columbia Planter pays for itself each season, in the saving of seed and the labor of thinning out. All Columbia Planters are built upon the same scientific and mathematical principles: the seed drops immediately into the cell or pocket formed in the seed cylinder where nothing can disturb it until it is carried to the ground by the revolution of the cylinder. The number of revolutions of the seed cylinder in any given length of furrow is absolutely controlled by the row in the disc wheel into which the sliding pinion is set. Row No. 1, next to the hub of disc wheel, is the slowest speed: each row outwardly to the 13th at the periphery increases the speed. The slower the speed of the seed cylinder, the greater the distance between the seeds planted in the furrow; the faster the seed cylinder revolves the less the distance between the seeds planted. We have still further control of the distance between the seed planting in the furrow by increasing or decreasing the number of cells in the seed cylinder.

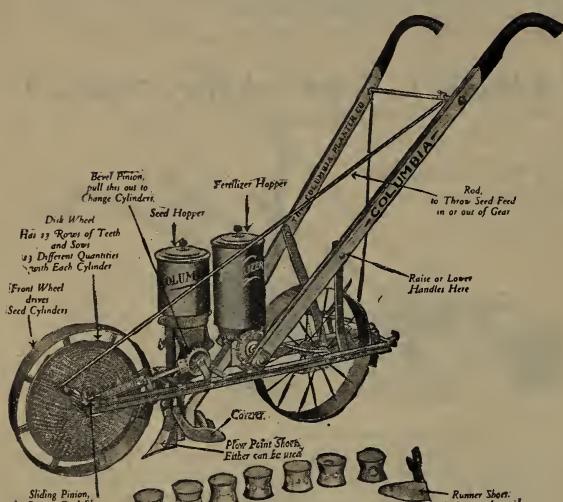
You can plant any seed any desired distance apart with mathematical precision. You can hill or drill your seed; you can plant one seed in a hill or you can plant a dozen seeds.

We send seven cylinders with each machine. These cylinders comprehend the planting of about all kinds of seeds for the average market gardener's requirements. We make cylinders for every known seed.

PRICES

No. 11 Planter, with Fertilizer Attachment.....	\$20 00
No. 11 Planter, without Fertilizer Attachment.....	16 00
No. 9 Planter, without Fertilizer Attachment.....	16 00

The No. 9 Planter has a shorter wheel-base and is more compact than the No. 11, and for these reasons is preferred by some planters. The Fertilizer Attachment cannot be used on the No. 9 machine.



No. 11 Planter



No. 9 Planter

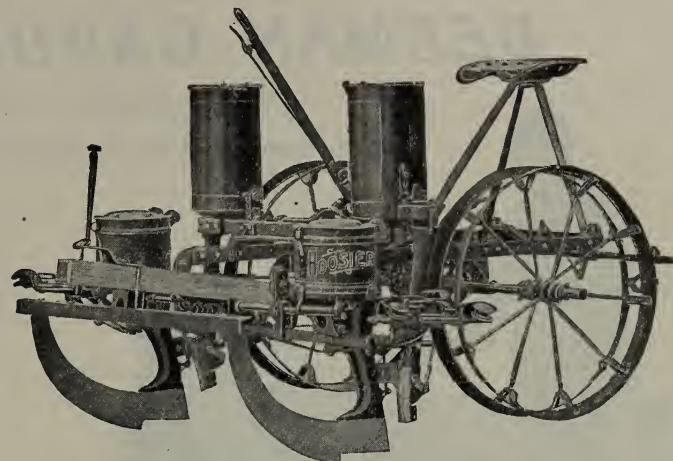
Write for our 144-page catalogue of Agricultural Implements and Farm Supplies

Hoosier Two-Row Corn Planter

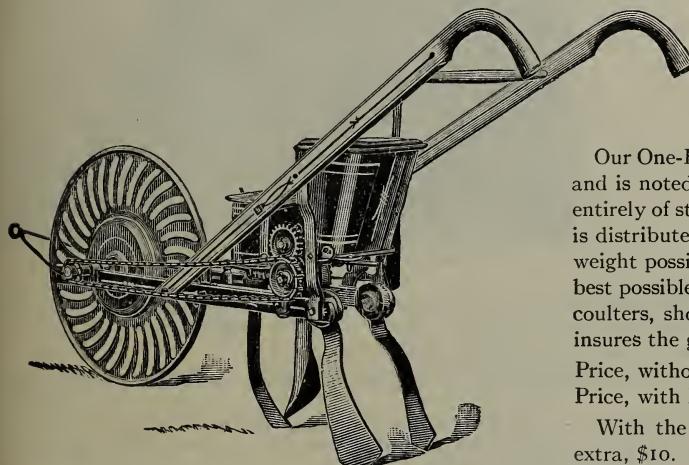
We do not consider it necessary to devote space or time introducing the Hoosier Line of corn-planting tools. They are well known to the farmers in every corn-growing locality of the United States. Their reputation is well established. Every year marks a large increase in the number sold, and today the word "Hoosier" on corn tools is accepted as indicating the standard of excellence in accuracy of planting and mechanical construction. The Hoosier Two-Horse Corn Planters are furnished with or without Fertilizer Attachment, with or without Check Rower. With this Planter, corn may be hilled or drilled and fertilizer may be drilled in rows or bunched in hills.

PRICES

No. 10 Planter, without Fertilizer Attachment.....	\$55 00
No. 10 Planter, with Fertilizer Attachment.....	73 00
Check Rower Attachment for either of the above, extra	13 00
Doubletrees and Neckyoke, extra.....	2 50



Hoosier Two-Row Corn Planter



Hoosier One-Row Corn Drill

Hoosier One-Row Corn Drill

Our One-Horse Hoe Corn-Drill is the most popular tool of the kind made, and is noted for its excellence and general good qualities. It is now made entirely of steel and iron, with the exception of the handles, and the material is distributed in such a way as to give the greatest strength and the least weight possible. It is, therefore, strong and light. The material used is the best possible to obtain for the purpose. All wearing parts, such as the hoes, coulters, shoes and covering shares, are made from high-grade steel that insures the greatest possible amount of wear.

Price, without Fertilizer Attachment.....\$19 00
Price, with Fertilizer Attachment.....22 00

With the "Reutzel and Frei" Depth Regulator, Pea and Bean Plate, extra, \$10. Circular mailed on request.

The Eclipse All-Steel Rotary Hand Corn Planter

It eclipses all others, having a positive feed and four changes of discs.

- Disc No. 1 is to drop one grain at a time.
- Disc No. 2 is to drop two grains.
- Disc No. 3 is to drop three grains.
- Disc No. 4 is for seed or broom corn.

Price, \$2.25; \$2.50 postpaid.

The Wiard Corn Planter

SIMPLE—DURABLE—ECONOMICAL

In this planter the seed is delivered from the dropper to the receptacle at the bottom, which, when opened by pressing over on the foot, leaves it at once at the depth required, avoiding the trouble found with all hand planters that deliver the seed direct from the dropper to the soil.

Price, \$2.50; \$2.65 postpaid.

Our Poultry Supply Department includes a full line of the latest improved requisites for Poultry Raising and Egg Production, including an unsurpassed line of poultry feeds. These are fully described in our 72-page poultry supply catalogue, which will be mailed free on request.



Wiard

BEEMAN GARDEN TRACTOR

Write for catalogue giving detailed information

Price, Equipped as a Walking Engine Only, \$300



Cultivates onions, carrots, beets, and other vegetables grown in narrow rows—one or three rows at a time—better, closer and quicker than hand wheel hoes. It cultivates corn, potatoes, beans, tobacco, etc., and does it much quicker and better than can be done with a horse, because it can keep up a faster pace all day in hot or cool weather.

Pulls one-horse plow, one-horse disc, Acme or smoothing harrow, and horse lawn mower.

Power on Belt is four horse-power, which is sufficient to run all small machinery requiring power used on the farm. It goes from one job to another on its own power.

As a Garden Tractor it is fully as efficient as its big brother on the farm. It will cultivate any crop now cultivated by a hand wheel or one-horse cultivator. In cultivating onions, carrots, beets, and all other vegetables grown in narrow rows, it goes *astride*; in cultivating corn, potatoes, peas, beans, tobacco, cotton, berries, etc., it travels *between* the rows.

The Beeman can be operated by a boy or a girl. All there is to do is to start it and steer it. All garden hoes, weeders, cultivators, teeth, knives, discs, etc., of standard make, such as you have been using in your hand cultivator, can be very easily attached to the tool frame in rear of the machine. Attachments are provided for operating between rows and these can be adjusted to fit rows of different widths.

It has more uses for belt work than we have room to speak of. A few of the principal uses are—running the washing machine, churn, cream separator, feed grinder, fanning mill, pump, etc. The Beeman will do anything that a four-horse power stationary engine can do and take itself to its work, too.

A handy man can fix up an endless number of attachments for the Beeman. Its usefulness is limited only by the amount of work there is to be done on the farm.

Pittsburgh, Pa., August 29, 1918.

THE I. W. SCOTT COMPANY, Pittsburgh, Pa.

Gentlemen: In reply to your letter of the 27th inst. in regard to the Beeman Garden Tractor, which I purchased through you, will say that I cannot recommend it too highly, as it does all they claim it to do. Have worked with it myself ever since I bought it. Although it seemed a little awkward at first, I soon learned how to handle it, and now I can do the work smoothly and evenly, without any exertion whatever. It does the work much better than could be done with a horse, and besides one can do much more work. It doesn't cost more than a good horse would, and the upkeep is much less. The cost to operate the Beeman Garden Tractor is very little, and it also saves about two hours' work a day. One can shut down in a few minutes, cover it, and go home and it requires about the same time to start it the next day. I don't think that anyone who has any amount of work to do should be without a Beeman Garden Tractor, and where one or more horses are required, or when one has to employ labor. Yours respectfully,

Kennywood Refreshment Company, W. M. WENTZEL, President,
Kennywood Park, Pittsburgh, Pa.

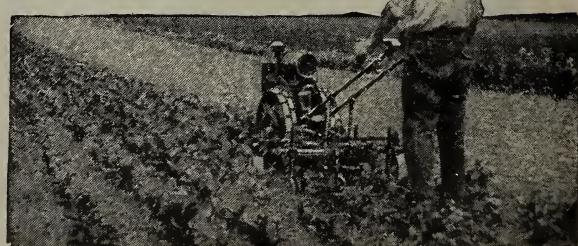
Pittsburgh, Pa., August 29, 1918.

THE I. W. SCOTT COMPANY, 514 Liberty Avenue, City.

Gentlemen: Am pleased to advise that I have been using Beeman Garden Tractor all this summer with very good results. Do not see how it would have been possible to get the work done without this little machine. Garden crops would suffer many times if they depended on the use of horses and cultivator. A good strong boy, or man, can take the machine out for a few minutes at a time, and do excellent work when they would not trouble themselves with a horse. I believe it will fill a place with the gardener that cannot be filled in any other way, more particularly during such times as we are now passing through, considering the extreme shortage of labor. I am very glad to recommend this machine to any person having garden work to do.

Yours very truly,

GEO. W. WITTMER, JR., Glenshaw, Pa.



GARDEN AND FARM BOOKS

GARDEN GUIDE (The Amateur Gardener's Handbook).

Fourth Edition. Completely revised and reset, with several new chapters prepared by many gardening experts expressly for the amateur and non-professional. Covers every step from plowing the ground to preserving the harvest. A guide to garden work for every month in the year. Over 375 pages; numerous teaching illustrations, planting plans and sketches; cover in four colors. Paper cover \$1, by mail \$1.08; cloth cover, \$1.50, by mail \$1.65.

MILADY'S HOUSE PLANTS. By F. E. Palmer.

Plan to enjoy flowers and plants all the year round. Bring your plants indoors to add beauty and cheerfulness to your home all winter long. Their care is simple and, with the aid of this book, success is assured. Written by an expert on house plants who has had over 25 years' experience. 180 pages; 100 illustrations "which tell a story;" four-color cover. Paper cover 75 cts., by mail 85 cts.; cloth cover \$1, by mail \$1.10.

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You will be astonished at the thoroughness and simplicity of this book. It is entirely different from any landscape treatise previously written, because it fits into your wants, considers practicability equally with the laws of art and beauty, and covers every detail from A to Z. The many concrete examples to be found in the book will make it practical to approach the subject of beautifying the home-ground surroundings in a definite and economical manner. 276 pages; 91 photographs, 67 sketches and 34 plans, 24 of which are planting plans. Cloth cover in four colors \$2, by mail \$2.15.

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Serves the need of the practical florist, the orchardist the nurseryman, the student, and all men interested in propagating plants either in the home-garden or commercially. Includes an intelligent survey of the various modes of propagating all the commercial indoor and outdoor plants, trees, shrubs, and herbaceous perennials. Excellent illustrations accompany and explain the text. 180 pages. Cloth cover \$1.50, by mail \$1.60.

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HOME FRUIT GROWER. By Prof. M. G. Kains. A clear, simple, practical, and comprehensive volume for the amateur who seeks to grow high-quality fruits for home needs, whether to eat out of hand as dessert, or put up in some culinary way. Each fruit suitable to the home garden is discussed, in many cases with descriptions of a dozen, a score, or even more varieties of conspicuous merit from the home-plantation standpoint. Copiously illustrated. 212 pages. Paper cover \$1.25, by mail \$1.35; cloth \$1.75, by mail \$1.90.

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To the Reader

We trust you will bear in mind that this catalogue represents but one branch of our business. We call your attention to our other lines as follows:

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Our implements from the "Plow to the Threshing Outfit" are all of standard makes and up-to-date in improvements.

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A complete line of Sanitary Dairy Appliances selected from the products of the largest manufacturers of dairy equipment.

POULTRY SUPPLIES

A full line of the latest improved requisites for poultry-raising and egg-production, including an unsurpassed line of poultry feeds.

Catalogue of any of the above lines free upon application

High-Grade Field Seeds Our Specialty
THE I.W. SCOTT CO.
PITTSBURGH, PA.

*Write for Our Complete Catalogue
of Agricultural
 Implements, Farm
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 Supplies*

EVERYTHING FOR FARM
GARDEN AND POULTRY

The Beeman Garden Tractor
has started a new era in
gardening. It plows, harrows,
cultivates, mows the lawn, and
runs all small farm machinery

(See page 76)



SCOTT'S LAWN SEED
MAKES PERFECT LAWNS